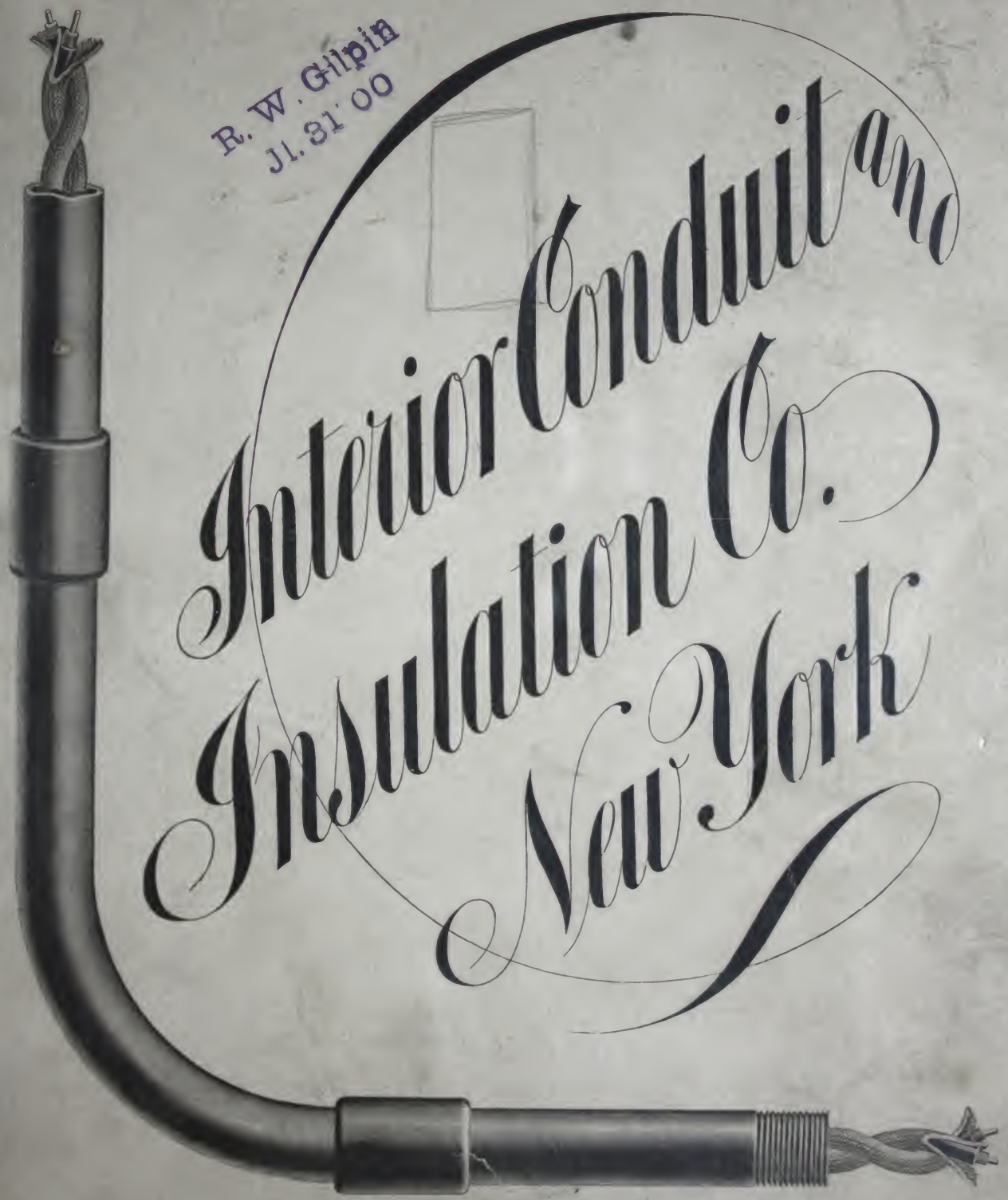
Catalogue No. 36, March, 1896.



Interior Conduit and Insulation Co. New York

WALKER & KEPLER,
PHILADELPHIA, PA.

Form 131-2-'96-7500.

CATALOGUE No. 36.

INSULATING CONDUITS.

UNARMORED, BRASS ARMORED, IRON ARMORED.

INSULATING FITTINGS.

BOXES, ELBOWS, COUPLINGS,

CUT-OUTS, SWITCHES.

SPECIAL TOOLS AND APPLIANCES.

INTERIOR CONDUIT AND INSULATION COMPANY,

GENERAL OFFICES, 527 WEST THIRTY-FOURTH ST., NEW YORK.

AGENCIES IN ALL PRINCIPAL CENTERS.

SEE FOLLOWING PAGE.

ALSO MANUFACTURERS OF

THE CELEBRATED LUNDELL MOTORS AND DYNAMOS.

SPECIAL CATALOGUE.

BARTLETT
& COMPANY


NEW
YORK

AGENCIES

With a view of promptly supplying the increasing demands of our customers, we have established supply depots in the principal commercial centers of the United States—the following well-known firms acting as our sole agents.

Requests for catalogues, discounts and other information will receive prompt attention at their hands.

INTERIOR CONDUIT AND INSULATION COMPANY

OF NEW YORK

REPRESENTED BY

CENTRAL ELECTRIC CO.	Chicago, Ill.
THOS. DAY & CO.	San Francisco, Cal.
ELECTRICAL SUPPLY & CONSTRUCTION CO.	Pittsburgh, Pa.
McCAY-HOWARD ENGINEERING CO.	Baltimore, Md.
MOUNTAIN ELECTRIC CO.	Denver, Col.
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WALKER & KEPLER	Philadelphia, Pa.
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Iron Armored Insulating Conduit.—Application.

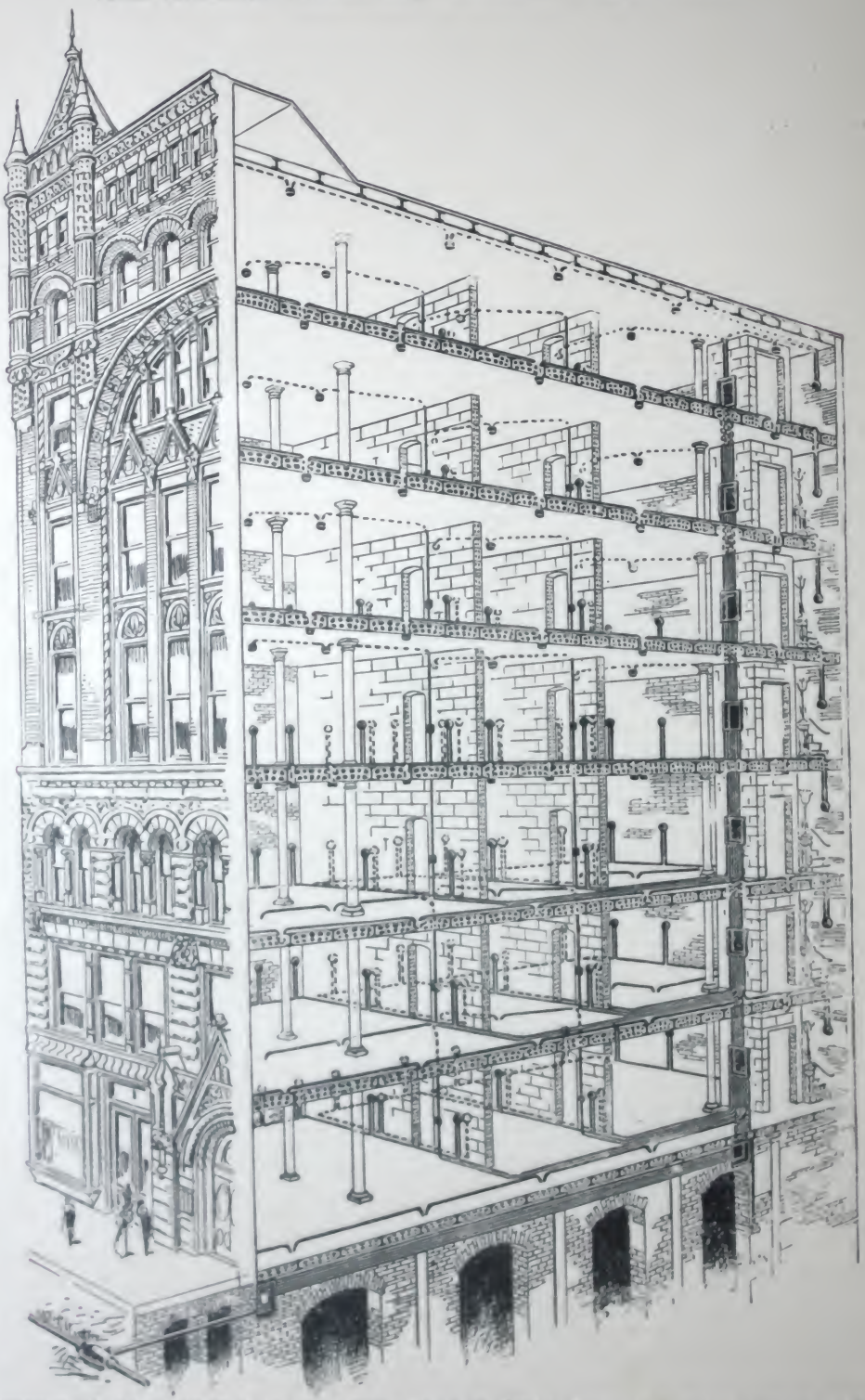


Illustration No. 367—Diagram of an Iron Armored Insulating Conduit System in a modern fire-proof building.

Description of Illustration No. 567.

To explain more fully the method of installing the Iron Armored Conduit in a fire-proof building, we herewith illustrate a section of a modern fire-proof building of moderate dimensions, recently installed for the three wire street service.

Illustration No. 567 shows the brick walls and terra cotta partitions of building, the conduit being installed on top of ceiling arches and on partition walls, before the floors are laid or the plastering is applied. The full lines, representing the runs of conduit, are those in sight from the perspective shown; the dotted lines indicate the runs on partitions and floors that would not be seen from this view of the building.

It is generally required in office buildings, hotels, etc., that the lights in halls, vestibules and other places be subject to control independently of the lights in rooms. In this case, to accomplish the work economically (the three wire system being employed), two separate sets of mains and risers of three conduits each were run from service cut-out through cellar to elevator shaft, thence on the inside of shaft (no channels or raceways on walls being provided) to top floor, all passing through the Cut-out Cabinets on each floor, and from these points the system was balanced in the usual manner. Fuse Blocks or Panel Boards and Switches for controlling the branch circuits being placed in these cabinets, for both the office and hall circuits of each floor. The single tube system (two wires in a tube) being employed for all branch circuits.

To avoid induction, when the alternating current is employed, it is absolutely necessary to run two conductors in a single Iron Armored Conduit. If the diameters of conductors are so large as to preclude their being placed in one tube, then it is the practice to run Single Brass Armored Conduits for each conductor for mains or risers, making the connections to Cut-out Cabinets and Junction Boxes by the use of combination nipples of the required size, and from these points continuing with the single tube system for all branches or taps.

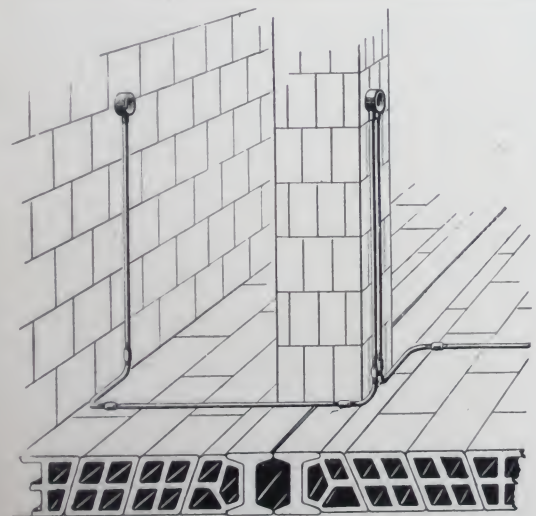


Illustration No. 359.

Illustration No. 359 shows another application of Iron Armored Conduit, showing the use of No. 512 Iron Armored Insulating Elbow and Outlet Boxes for fire-proof work or terra cotta walls.

TO PURCHASERS.

Prices Subject to Change Without Notice.

Always use our Catalogue numbers and designate sizes when ordering.

Boxing and cartage charged at cost.

In ordering, please state how goods are to be shipped; if by freight or express, give name of route.

We use the greatest care in packing, and our liability ceases when we have delivered goods to carrier and received receipt therefor.

Orders to be shipped C. O. D. from persons unknown to us must be accompanied by a sufficient amount to pay transportation charges.

Purchasers having no account with us must send cash with the order, or satisfactory references to justify us in opening an account.

Accounts payable thirty days from date of invoice, and subject to sight draft without notice after that date.

In ordering Tube and Fittings, the proper amount of Fittings bears about the following ratio to the Tube:

Three Couplings to every ten feet of Brass Armored Tube.

Four Couplings to every ten feet of Iron Armored Tube.

Four Elbows to every thirty feet of Tube.

Fifteen Clips to every thirty feet of Plain or Brass Armored Tube.

The number of Main Line, Junction, Feeder and other Boxes can only be determined by actual count and the arrangement of the circuits.

Small quantities of Compound, for sealing Tubes in Junction Boxes, Soapstone and Fishing Wire should always accompany every order.

Iron Armored Conduit is shipped in bundles, securely tied.

Packing Charges are as follows: Slats for Bundling Plain or Brass Armored Conduit, 7 cts. each; Six-foot Crates, 75 cts. each; Ten-foot Crates, $1.00 each; Barrels, 25 cts. each; Small Boxes, 15 cts. and 25 cts. each.

We charge net cost of material *only*, and are not reimbursed for the labor expended in packing.

Correspondence in regard to special designs or sizes of our goods solicited.

TWO SEPARATE WIRES OR A TWIN CONDUCTOR IN A SINGLE TUBE.

IRON ARMORED INSULATING CONDUIT.

SINGLE TUBE SYSTEM
FOR DIRECT AND ALTERNATING CURRENTS.

EITHER SYSTEM CAN BE USED IN THE SAME INSTALLATION.

THIS SYSTEM MEETS ALL REQUIREMENTS.

HIGH INSULATION. INDESTRUCTIBLE ARMOR. GENERAL ADAPTABILITY.

FIRE-PROOF. NAIL-PROOF. WATER-PROOF.

RULES ON IRON ARMORED INSULATING CONDUIT.

The Rules and Requirements of the National Board of Fire Underwriters, as recommended by the Underwriters' National Electric Association, and adopted by the various Boards throughout the United States, approve the use of Iron Armored Conduit. (See page 17, Rule 22.)

RULE 22 (page 17). INTERIOR CONDUITS:—(e) Must not be supplied with a Twin Conductor, or two Separate Conductors, in a Single Tube. (See page 32, Rule 22.)

RULE 22 (page 32). INTERIOR CONDUITS: * * * * * the *Brass Sheathed* and the Iron Armored Tubes made by the Interior Conduit and Insulation Company, * * * are approved for the class of work called for in this rule.

NOTE.—The use of Two Standard Wires (see page 35), either Separate or Twin Conductor, in a Straight Conduit Installation is approved in the **Iron Armored Conduit** of the Interior Conduit and Insulation Company, but not in any of the other approved Conduits. (See page 17, Rule 22, c.)

Weight, Cubic Measurement, Etc., of Conduit and Fittings, as Packed for Shipment.

Weight of Plain Conduit as Packed for Shipment in Bundles.

Size Inches	Number of Feet in Bundle	Diameter of Bundle Inches	Length of Bundle Ft. Ins.	Weight of Bundle Lbs.	Cubic Feet Contained in Bundle
¼	1000	7¼	6 4	58	1.816
⅜	1000	6	10 4	66	2.03
½	1000	7½	10 4	99	3.17
⅝	1000	8¼	10 4	111	3.836
¾	1000	9½	10 4	121	5.087
1	500	8¾	10 4	93	4.315
1¼	500	11½	10 4	118	7.45
1½	500	12½	10 4	161	8.81
2	250	10½	10 4	137	6.214
2½	200	11½	10 4	114½	7.45
	150	13	10 4	122	9.525

Brass Armored Conduit.

Size Inches	Number of Feet in Bundle	Diameter of Bundle Inches	Length of Bundle Ft. Ins.	Weight of Bundle Lbs.	Cubic Feet Contained in Bundle
¼	1000	6¼	10 4	98½	2.21
⅜	1000	7½	10 4	135	3.17
½	500	6¼	10 4	91½	2.568
⅝	500	7	10 4	95	2.765
¾	250	6½	10 4	73	2.381
1	250	7½	10 4	91½	3.17
1¼	200	8½	10 4	99	4.072

Weight of Elbows per Barrel and Amount Contained in Same.

PLAIN ELBOWS			BRASS ARMORED ELBOWS		
Size Inches	Number of Elbows in Barrel	Weight per Barrel Lbs.	Size Inches	Number of Elbows in Barrel	Weight per Barrel Lbs.
¼	3800	113	¼	2400	175
⅜	3100	112	⅜	1350	154
½	1600	107½	½	950	137
⅝	1400	104	⅝	850	136
¾	1000	90	¾	400	116
1	500	91	1	170	105
1¼	300	81	1¼	150	136
1½	175	80			

Weight of Elbows per 100.

PLAIN ELBOWS			BRASS ARMORED ELBOWS		
Size Inches	Amount	Weight Lbs.	Size Inches	Amount	Weight Lbs.
¼	100	2½	¼	100	6¼
⅜	100	3	⅜	100	10
½	100	5½	½	100	12½
⅝	100	7	⅝	100	14
¾	100	8	¾	100	25
1	100	15	1	100	50
1¼	100	20	1¼	100	80
1½	100	35			
2	100	80			

Weight of Iron Armored Elbows and Iron Couplings Packed.

Size Inches	Number Elbows in Barrel	Weight	Number Couplings in Box	Weight
½	500	300	1000	145
¾	300	350	500	100
1	180	360	300	100
1¼	100	350	250	120
1½	65	358	200	144
2	x	7½	150	188
2½	x	14	100	170
	x	24	50	140

Weight, Dimensions and Cubic Measurement of Plain and Brass Armored Conduit in Crates, Including Weight of Crates.—Plain Conduit.

Size Inches	Number of Feet of Tube in Crate	Weight of Crate Lbs.	Dimensions of Crate Inches	Cubic Measurement of Crate Feet
¼	5000	266	76 x 16 x 14	9.852
⅜	9000	585	124 x 21 x 14	21.097
½	5500	580	124 x 21 x 14	21.097
⅝	4000	465	124 x 21 x 14	21.097
¾	3500	460	124 x 21 x 14	21.097
1	2300	430	124 x 21 x 14	21.097
1¼	1500	365	124 x 21 x 14	21.097
	1000	335	124 x 21 x 14	21.097

Brass Armored Conduit.

Size Inches	Number of Feet of Tube in Crate	Weight of Crate Lbs.	Dimensions of Crate Inches	Cubic Measurement of Crate Feet
¼	9000	840	124 x 21 x 14	21.097
⅜	5500	730	124 x 21 x 14	21.097
½	4000	715	124 x 21 x 14	21.097
⅝	3500	685	124 x 21 x 14	21.097
¾	2300	675	124 x 21 x 14	21.097
1	1500	560	124 x 21 x 14	21.097
1¼	1000	485	124 x 21 x 14	21.097

Weight of Couplings per 1000 as Packed for Shipment.

No. 102 FOR PLAIN CONDUIT			No. 103 FOR BRASS ARMORED CONDUIT		
Size Inches	Amount	Weight Lbs.	Size Inches	Amount	Weight Lbs.
¼	1000	12	¼	1000	18¾
⅜	1000	14½	⅜	1000	20½
½	1000	17½	½	1000	25¼
⅝	1000	21	⅝	1000	28½
¾	1000	25¼	¾	1000	46
1	1000	36½	1	1000	51
1¼	1000	44½	1¼	1000	89
1½	1000	60			

Weight of Couplings for Brass Armored and Plain Conduit per Barrel and Number of Couplings Contained in One Barrel.

Size Inches	Amount of No. 102 in Barrel	Weight per Barrel Lbs.	Size Inches	Amount of No. 103 in Barrel	Weight per Barrel Lbs.
¼	9000	83½	¼	8000	131
⅜	8000	96	⅜	6000	110¼
½	6000	91	½	5000	113
⅝	5000	91	⅝	4500	113½
¾	4500	94¼	¾	3000	106
1	3000	76	1	2750	126
1¼	2750	98½	1¼	1500	125¼
1½	1750	121			

Iron Armored Insulating Conduit.

Size Inches	Number Feet in Bundle	Weight	Dimensions of Bundle Inches	Cubic Measurement of Bundle Feet
⅜	200	162	120 x 5 x 5	1.7
½	100	123	120 x 5 x 5	1.7
¾	100	173	120 x 6 x 6	2.5
1	50	127	120 x 5 x 4	1.4
1¼	50	151	120 x 6 x 4½	1.9
1½	1 length	41	120 x 2¾ round	.3
2	1 "	58	120 x 3½ "	.5
2½	1 "	78	120 x 4 "	1.11

Iron Armored Insulating Conduit.

Actual Size ⅜-inch Conduit.

Price List.

SIZE										PRICE
⅜	inch	inside	diameter,	.84	inch	outside	diameter,	per hundred	feet	$12 00
½	"	"	"	1.05	"	"	"	"	"	15 00
¾	"	"	"	1.315	"	"	"	"	"	21 00
1	"	"	"	1.66	"	"	"	"	"	27 00
1¼	"	"	"	1.90	"	"	"	"	"	34 00
1½	"	"	"	2.375	"	"	"	"	"	47 00
2	"	"	"	2.875	"	"	"	"	"	67 00
2½	"	"	"	3.50	"	"	"	"	"	87 00

All sizes supplied in ten-foot lengths, with a coupling for each length.

Tubes have slightly tapering threads at both ends, and in making joints, these ends should be firmly abutted in center of coupling to secure continuity of insulation. Wherever the tube is cut the burr should be removed by using Butt Reamer No. 158 (see list of tools).

Prices on all Iron Armored Conduit and fittings are subject to change, without notice, on account of the fluctuation in prices of iron piping. Contractors are advised to obtain from us latest quotations before placing their orders.

The Iron Armored Insulating Conduit is, as in the case of the Brass Armored Conduit, a still further development in the art of which we are the pioneers. It consists of our well-known plain insulating tubing placed within a standard wrought-iron pipe. The insulating tube is firmly attached or cemented to the interior of the iron pipe and a cross section will show that it is so firmly consolidated with the iron that, in reality, it forms a part thereof. The flexibility of the system is maintained by the use of iron armored insulating junction boxes, elbows and couplings, which are illustrated and described herewith.

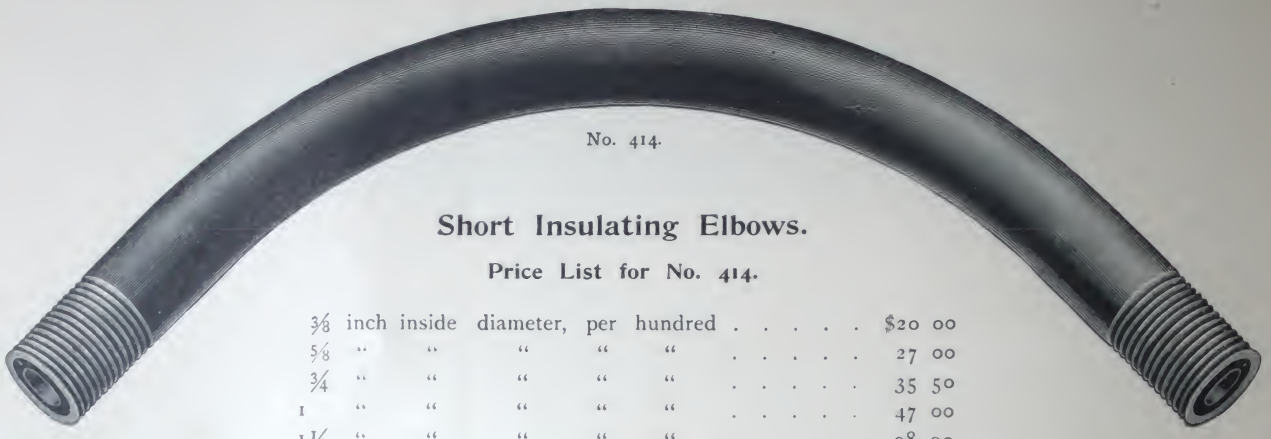
The Iron Armored Insulating Conduit has an armor possessing all the qualities of gas or water pipe, and can be installed with equal ease by the use of tools for cutting, threading, etc.

In combination with the Brass Armored Conduit it can be advantageously employed in construction work, under concrete, tiled or mosaic floors, and other like places, without the expensive precautions for protection that are necessary in the use of plain or Brass Armored Conduit.

A saving in labor is effected in installing the Iron Armored Conduit, inasmuch as it can be installed in advance of the mason work, at the most advantageous time during the construction of a building, without fear of accident to it by masons, mechanics, or other workmen.

Weight, dimensions and cubic measurements for Conduit and fittings when packed, are given on page 8.

Iron Armored Insulating Conduit.—Elbows.



No. 414.

Short Insulating Elbows.

Price List for No. 414.

3/8	inch	inside	diameter,	per	hundred	$20 00
5/8	"	"	"	"	"	27 00
3/4	"	"	"	"	"	35 50
1	"	"	"	"	"	47 00
1 1/4	"	"	"	"	"	98 90
1 1/2	"	"	"	"	"	203 00
2	"	"	"	"	"	363 00
2 1/2	"	"	"	"	"	521 00

Insulating Outlet Elbows.

Price List for No. 418.

3/8, per hundred . $38 35 5/8, per hundred . $58 85
3/4, per hundred . . . $84 45

Price List for No. 419.

3/8	in.	inside	diam.,	per	hundred	$38 35
5/8	"	"	"	"	"	58 85
3/4	"	"	"	"	"	84 45

No. 580.

Insulating Elbow Outlets.

No. 581.

Price List for Nos. 580 and 581.

3/8	inch	inside	diameter,	per	hundred	$29 25
5/8	"	"	"	"	"	42 50

Above cuts are one-half size of 5/8-inch conduit.

No. 418.

No. 419.

Sizes given are of conduit for which Elbows are fitted.

SPECIAL NOTICE.

April 8th, 1896.

Since this catalogue went to press we have reduced the list prices of Iron Armored Insulating Elbows as follows:

No. 414, per 100.

Size	Price	Size	Price
¼-inch	$18 00	1¼-inch	$60 00
⅜ "	23 00	1½ "	165 00
½ "	30 00	2 "	240 00
1 "	35 00	2½ "	350 00

No. 580 and 581, per 100.

Size	Price	Size	Price
¾-inch	$25 00	¼-inch	$38 00
½ "	30 00	1 "	50 00

No. 419, per 100.

Size	Price
⅜-inch	$20 00
½ "	27 00
¾ "	35 00

No. 418, per 100.

Size	Price
⅜-inch	$22 00
½ "	30 00
¾ "	40 00

ıit.—Elbows.

List of S Insulating Elbows.

Size Inside Dia.	Off-set Inches	Price per Hundred	Off-set Inches	Price per Hundred	Off-set Inches	Price per Hun'd
⅜	14	$41 60	16	$42 70	18	$44 40
½	17	62 00	19	64 25	21	66 50
¾	19	76 00	21	79 10	23	82 20
1	23	96 40	25	100 40	27	104 40
1¼	28	182 00	30	187 00	32	192 00

Note.

The No. 519 (Short) S Elbow with 14-inch off-set is kept in stock regularly.

The No. 519 (Long) S Elbow having a greater off-set than 14 inches will be made to order at the above list prices.

No. 519S. Short

No. 519S. Long

ich Conduit.

Iron Armored Insulating Conduit.—Elbows.

No. 418.

Sh

⅜ inch inside
⅝ " "
¾ " "
1 " "
1¼ " "
1½ " "
2 " "
2½ " "

Insu

⅜, per hundred
¾,

No. 580.

⅜ in.
⅝ "
¾ "

Insu

Pr

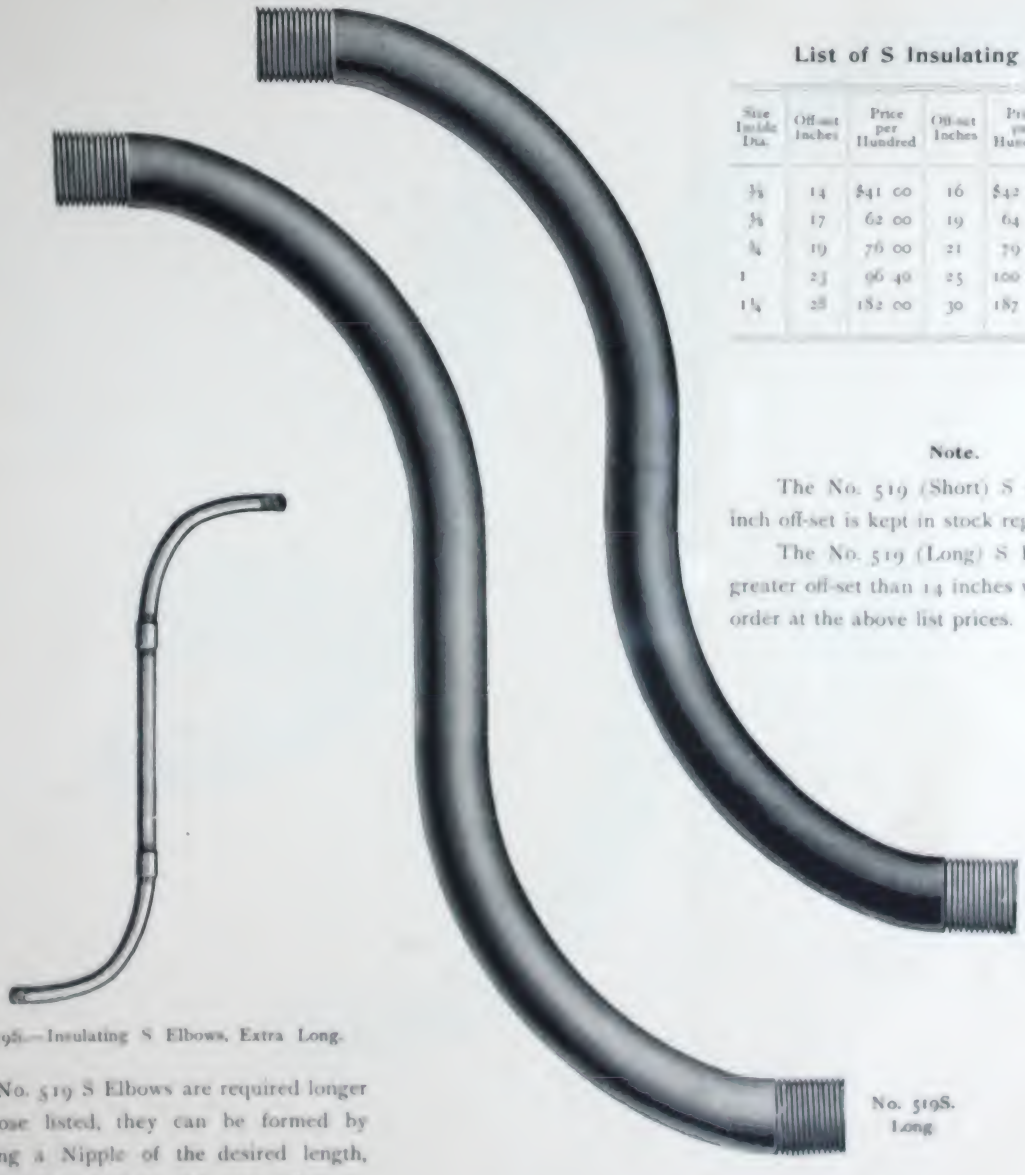
⅜ inch inside
⅝ " "

Above cuts are one-half

Sizes given are of conduit for which Elbows are fitted.

No. 419.

Iron Armored Insulating Conduit.—Elbows.



No. 519S.—Insulating S Elbows, Extra Long.

If No. 519 S Elbows are required longer than those listed, they can be formed by combining a Nipple of the desired length, two Couplings and two No. 414 Elbows.

No. 519S Short

No. 519S. Long

List of S Insulating Elbows.

Size Inside Dia.	Off-set Inches	Price per Hundred	Off-set Inches	Price per Hundred	Off-set Inches	Price per Hun'd
⅜	14	$41 60	16	$42 70	18	$44 40
½	17	62 00	19	64 25	21	66 50
¾	19	76 00	21	79 10	23	82 20
1	23	96 40	25	100 40	27	104 40
1¼	28	182 00	30	187 00	32	192 00

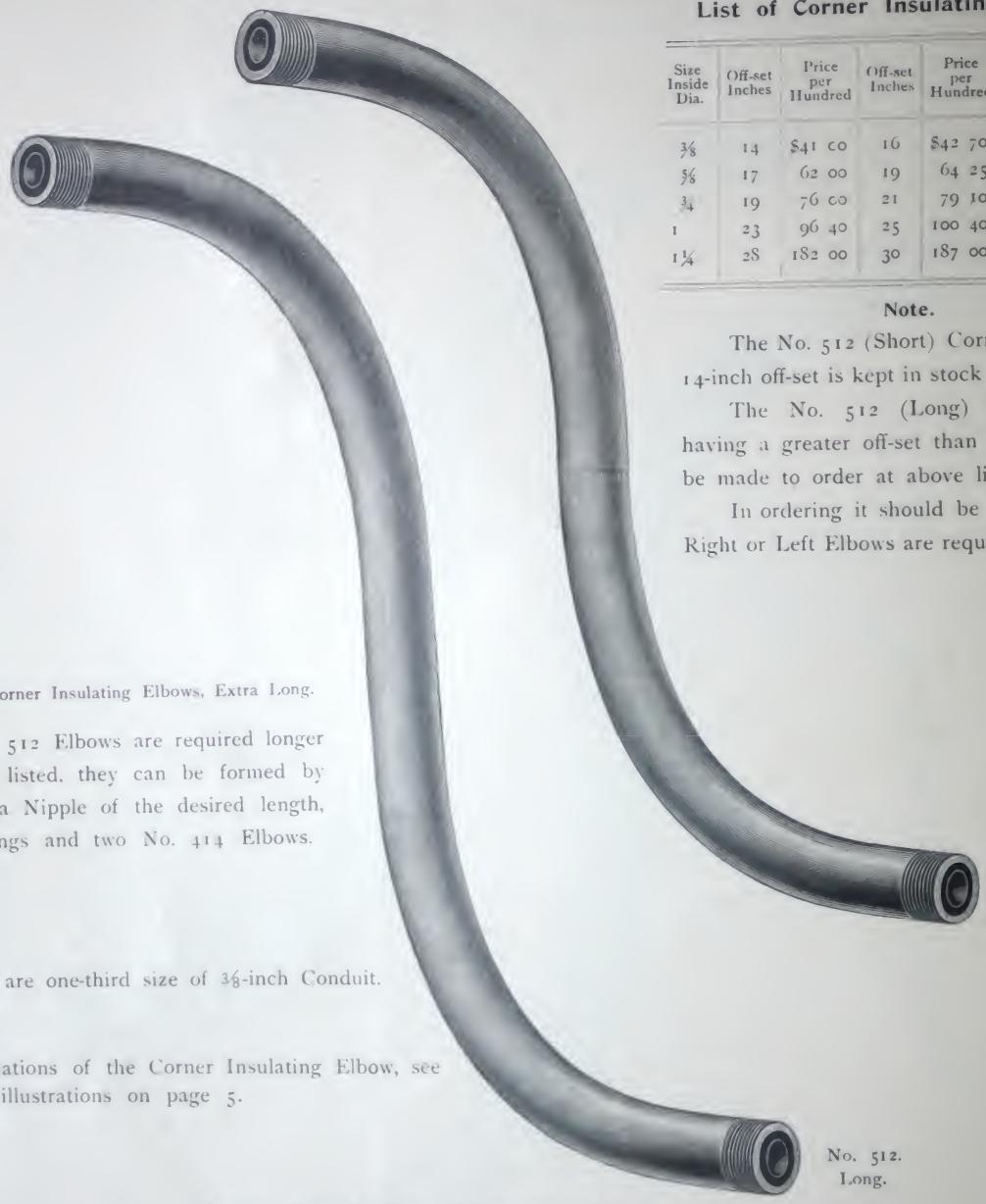
Note.

The No. 519 (Short) S Elbow with 14-inch off-set is kept in stock regularly.

The No. 519 (Long) S Elbow having a greater off-set than 14 inches will be made to order at the above list prices.

Above cuts are one-third size of ¾-inch Conduit.

Iron Armored Insulating Conduit.—Elbows.



No. 512.—Corner Insulating Elbows, Extra Long.

No. 512. Short.

No. 512. Long.

If No. 512 Elbows are required longer than those listed, they can be formed by combining a Nipple of the desired length, two Couplings and two No. 414 Elbows.

Above cuts are one-third size of ⅜-inch Conduit.

For applications of the Corner Insulating Elbow, see illustrations on page 5.

List of Corner Insulating Elbows.

Size Inside Dia.	Off-set Inches	Price per Hundred	Off-set Inches	Price per Hundred	Off-set Inches	Price per Hundred
⅜	14	$41 00	16	$42 70	18	$44 40
⅝	17	62 00	19	64 25	21	66 50
¾	19	76 00	21	79 10	23	82 20
1	23	96 40	25	100 40	27	104 40
1¼	28	182 00	30	187 00	32	192 00

Note.

The No. 512 (Short) Corner Elbow with 14-inch off-set is kept in stock regularly.

The No. 512 (Long) Corner Elbow having a greater off-set than 14 inches will be made to order at above list prices.

In ordering it should be stated whether Right or Left Elbows are required.

Long Insulating Elbows.—List of No. 416.

Inside Diameter			⅜	½	¾	1	1¼	Off-set
Length, 10 inches.	Per 100		$23 00	$28 00	. . . .	. . . .	. . . .	⅜-inch Elbow, 6⅜ inches
" 12 "	"		25 00	30 50	$40 00	. . . .	. . . .	½ " " 7 "
" 14 "	"		27 00	33 00	44 00	$58 00	. . . .	¾ " " 8½ "
" 16 "	"		29 00	35 50	48 00	63 00	$106 00	1 " " 10½ "
" 18 "	"		31 00	38 00	52 00	68 00	114 00	1¼ " " 12 "

NOTE.—Other lengths made to order. No 416 Iron Armored Insulating Elbow corresponds in style with No. 116 Brass Armored Elbow.

Iron Armored Insulating Conduit.—Fittings.

Nipples.

No. 584. Insulating Nipples.

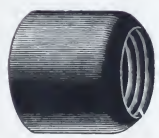
INSIDE DIA.	LENGTH IN INCHES						PRICE, EACH		PRICE, EACH, OF EXTRA LONG							
Inches	Close	Short	Long				Close or Short	Long	5″	6″	7″	8″	9″	10″	11″	12″
⅜	1⅛	1½	2	2½	3	3½	$0 07	$0 10	$0 18	$0 19	$0 20	$0 21	$0 22	$0 23	$0 25	$0 27
⅝	1⅜	2	2½	3	3½	4	09	11	20	21	22	23	25	27	29	31
¾	1½	2	2½	3	3½	4	10	15	22	24	27	29	31	33	36	40
1	1⅝	2½	3	3½	4	4½	14	20	29	31	33	35	38	40	43	46
1¼	1¾	2½	3	3½	4	4½	17	25	36	38	40	42	45	48	51	55
1½	2	2½	3	3½	4	4½	25	35	44	49	54	59	64	69	74	79
2	2½	3	3½	4	4½	5	56	75	75	80	85	91	1 00	1 10	1 20	1 30
2½	2½	3	3½	4	4½	5	75	95	95	1 00	1 06	1 15	1 24	1 34	1 44	1 55

Couplings.

No. 104.—Couplings for Iron Armored Insulating Conduit

Size	No. 104	Right and Left Coupling
⅜ inch inside diameter, per 100	$ 7 00	$11 00
⅝ " " " "	10 00	15 00
¾ " " " "	13 00	20 00
1 " " " "	17 00	25 00
1¼ " " " "	21 00	30 00
1½ " " " "	28 00	50 00
2 " " " "	40 00	85 00
2½ " " " "	60 00	120 00

Caps.



No. 582.—Caps for Iron Armored Insulating Conduit.

Size	No. 582
⅜ inch inside diameter, per 100	$ 5 00
⅝ " " " "	8 00
¾ " " " "	11 00
1 " " " "	15 00
1¼ " " " "	22 00
1½ " " " "	30 00
2 " " " "	50 00
2½ " " " "	80 00

Size given is that of the conduit for which couplings are fitted.

N. B.—These are not standard gas couplings (taper tapped) but have straight threads, allowing tubes to abut in center of coupling.

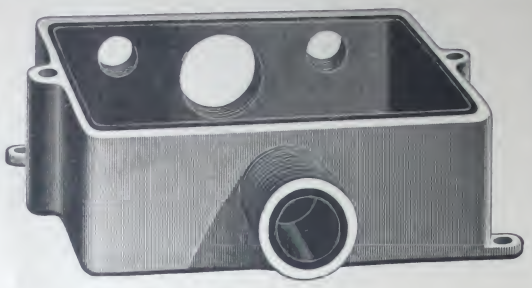
No. 583.

Plugs.—Cast Iron.

Size of Conduit	⅜	⅝	¾	1	1¼	1½	2	2½
Price, each	4 cts.	5 cts.	6 cts.	10 cts.	13 cts.	20 cts.	35 cts.	50 cts.

Iron Armored Insulating Conduit.—Boxes.

Single Tube System for Direct or Alternating Currents.

Main Junction  and Terminal Box.

No. 2502.

This style of Box is manufactured as per Illustration, with an Insulating lining of Asphaltic Paper. The Insulating Nipples are the full length of a Coupling and are included in the price of Box.

Unless otherwise specified the mains are supplied with Insulated Nipples for 1-inch Conduit, and the branches for ⅝-inch Conduit.

Outlets are placed so as to leave $\frac{5}{16}$ of an inch for the hard finish of walls between the Outlet and front rim of Box for Brick and Terra Cotta Work, and ¼ of an inch for Lath and Plaster. If installation is to be made before partition walls are erected, we place the Outlets to order, to clear the thickness of Terra Cotta wall. If orders for special Boxes do not specify "Brick" or "Lath and Plaster," we make them for Brick Work.

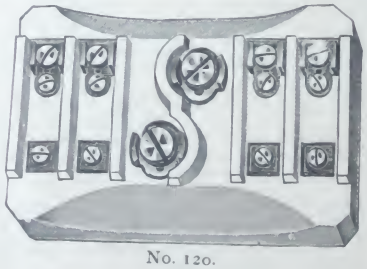
No. 2502. Dimensions: Outside Length, 6 inches; Width, 3⅞ inches; Depth, 3 inches. List price $4 75

For price of Box without Nipples, but having threaded Outlets for Conduits, deduct from list prices for each Outlet, as follows: For ⅜-inch, 9c.; ½-inch, 10c.; ¾-inch, 12c.; 1-inch, 16c.; 1¼-inch, 20c. We advise the use of Nipples, however, as at our works they are fitted flush with inside of boxes before they are lined, thus keeping the insulating lining intact, which, during installation, is liable to damage by screwing lengths of conduit too far into the Boxes.

Porcelain Cut-outs for above.

No. 120, Two Circuit Cut-out,

List Price, ... $1 80



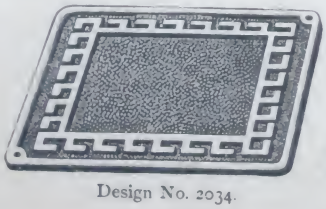
No. 120.

Dimensions.

5¼ inches by 3⅛ inches.

Porcelain, 1¼ inches thick.

Covers for Box No. 2502.



Design No. 2034.

Design No. 2036.

Price List.

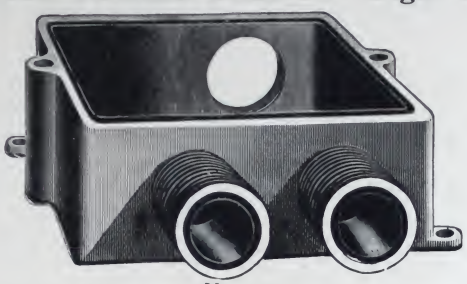
DIMENSIONS OF BOXES OUTSIDE	FINISH	DESIGNS	
		NO. 2034	NO. 2036
6 x 3⅞	Bronze Polished	$0 65	$0 65
	Nickel "	55	60
	Galvanized	55	20
	Plain Iron	40	. .

These Covers have an electro-plated finish in Bronze and Nickel with polished surfaces. The Plain and Galvanized-iron Covers are unfinished for concealed work. The above Covers will be made to order to match any interior finish. Covers for all Boxes have an Insulating Lining.

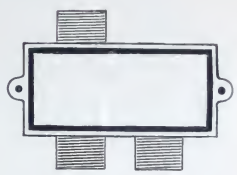
Iron Armored Insulating Conduit.—Boxes.

Feeder Terminal Junction Boxes for Single Tube System.

No. 2590.—Right Hand.



No. 2590.



No. 2591.—Left Hand.

These Boxes are manufactured on the above plan for the various circuits, as described below; prices include Nipples.

Two Wire System.

No. 2590, Right Hand, for Brick Work or Terra Cotta	$4 25
" 2591, Left " " " " " " "	4 25
" 2592, Left " " Lath and Plaster Work	4 60
" 2593, Right " " " " " "	4 60

Dimensions of Boxes.—Inside Diameter.

No. 2590:	Length, 7½	inches;	Width, 3⅜	inches;	Depth, 3	inches.
" 2591:	" 7½	"	" 3⅜	"	" 3	"
" 2592:	" 7½	"	" 3⅜	"	" 3½	"
" 2593:	" 7½	"	" 3⅜	"	" 3½	"

Unless otherwise specified, Outlets are made for 1¼-inch Conduits for feeders, and 1-inch Conduits for distributors.

Outlets are placed so as to leave $\frac{5}{16}$ of an inch for the hard finish of walls between the Outlets and front rim of Box for Brick and Terra Cotta work, and ¾ of an inch for Lath and Plaster. If Nipples are not to be used, see note on page 14.

Covers to fit these Boxes are illustrated and described on page 60.

No. 6.

Porcelain Cut-out for above.

No. 6, Two Wire Feeder Terminal.

List Price, $3.50.

Dimensions: Length, 7 ins.; Width, 3⅜ ins.; Thickness, 1⅜ ins.

Feeder, Splicing, or "Pulling-in" Boxes for Single Tube System.

No 2694.

Unless otherwise specified in orders, Feeder Junction Boxes are furnished for 1¼-inch Conduit. If Nipples are not to be used, see note on page 14.

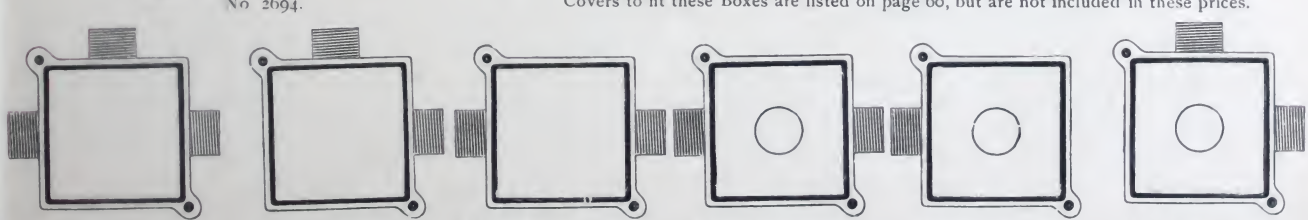
No. 2598, Two Wire System, for Brick or Terra Cotta,								2	Outlet	Nipples	. . . .	$4 10
" 2692,	"	"	"	"	"	"	"	3	"	"	. . . .	4 75
" 2696,	"	"	"	"	"	"	"	2	"	"	. . . .	4 10
" 2690,	"	"	"	"	"	"	"	3	"	"	. . . .	4 75
" 2694,	"	"	"	"	"	"	"	2	"	"	. . . .	4 10
" 2698,	"	"	"	"	"	"	"	3	"	"	. . . .	4 75

Nos. 2678, 2675, 2665, 2666, 2667, 2668 are for Lath and Plaster Work. For list prices of these, add 50 cts. to the above list.

Dimensions inside, for Brick or Terra Cotta Work: Length, 6½ inches; Width, 6½ inches; Depth, 2¾ inches. Nipples are placed to allow for $\frac{5}{16}$ of an inch for Plaster.

Dimensions inside, for Lath and Plaster Work: Length, 6½ inches; Width, 6½ inches; Depth, 3¼ inches. Nipples are placed to allow for ¾ of an inch for Lath and Plaster.

Covers to fit these Boxes are listed on page 60, but are not included in these prices.



Nos 2690 and 2678. Nos. 2694 and 2675. Nos. 2696 and 2665. Nos. 2692 and 2666. Nos. 2598 and 2667. Nos. 2698 and 2668.

In ordering, be careful to specify sizes of Conduit to be used, and if Cut-out will be required. Cut-outs for these Boxes are not carried in stock, but will be made to order, at short notice, mounted on Marbleized Slate.

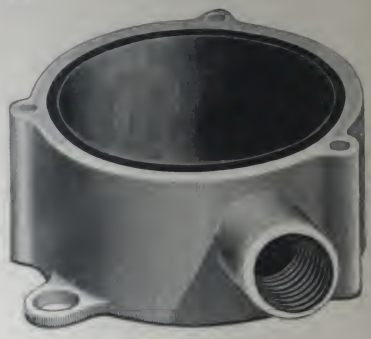
Iron Armored Insulating Conduit.—Boxes.

Branch Circuit Junction Boxes.—Large Size.

Price List.—Complete with Nipples.

No.							
For Brick or Terra Cotta.							
3132.	3 Outlets,	1	Main,	2	Branch		$3 75
3133.	3 "	1	"	2	"	R. or L.	3 75
3134.	3 "	2	"	1	"		3 85
3136.	4 "	2	"	2	"		4 35
3142.	1 "			1	"		2 75
3144.	2 "			2	"		3 15
For Lath and Plaster.							
3138.	3 Outlets,	1	Main,	2	Branch		$4 00
3139.	3 "	1	"	2	"		4 00
3140.	3 "	2	"	1	"		4 10
3141.	4 "	2	"	2	"		4 60
3143.	1 "			1	"		3 00
3145.	2 "			2	"		3 40

No. 3136.

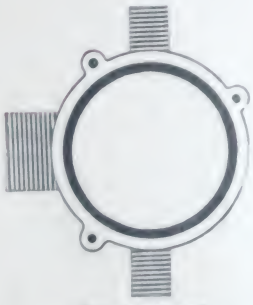


No. 3142-3143.

Dimensions: { For Brick or Terra Cotta Work, Inside Diameter, 4⅜ inches; Depth, 2½ inches.
{ For Lath and Plaster " " " 4⅜ " " 3 "

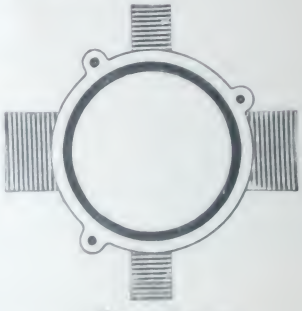
Unless otherwise specified in orders, we supply Nipples for 1-inch mains and ⅜-inch branches. If Nipples are not to be used, see note on page 14. For smaller Boxes, same style, see pages 17 and 18.

Diagram of Outlets.

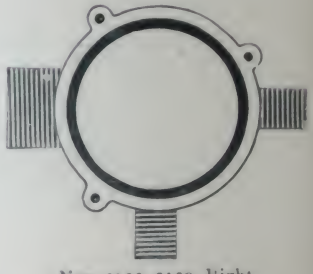


Nos. 3132, 3138.

Nos. 3134, 3140.



Nos. 3136, 3141



Nos. 3133, 3139, Right.

Outlets are placed ½ inch below rim of box for brick or terra cotta work, and ¾ inch for lath and plaster work.

Double Pole Porcelain Cut-out Blocks for above.

No. 713. Cut one-half size.

Complete, with No. 1009 Binding Post and No. 690 or 695 Porcelain Fuse Holder, made especially to be used in Junction Box No. 3136, the diameter of which, 3⅞ inches, will allow of easy access for wiring and making connections.

Actual diameter, 3⅝ inches. Will fit all round boxes of 4⅜ inches inside diameter.

No. 713—Complete, as shown above, List Price . . . $2 05
No. 720—With ordinary Binding Screws, List Price . . 1 35
One Set of four, No. 690, Fuse Holders and Fuse . . 80

No. 712. Cut one-half size.

This Cut-out is fitted with No. 1009 Binding Post (see page 281), but is not adapted for No. 690 Porcelain Fuse Holder.

Actual size, 3 x 3 inches. Will fit all round boxes of 4¼ inch inside diameter, and square boxes 3 x 3 inches inside. Main terminals will hold No. 4 solid wire and branches No. 12, B. & S. wire gauge.

No. 712—Complete, as shown above, without Fuse Leads, Price $1 05
No. 722—Complete, with No. 1009 Binding Post, without Fuse Leads, Price 1 30
Extra 3 or 6-ampere Fuse, Price, ... 05

Iron Armored Insulating Conduit.—Boxes.

Branch Circuit Junction Boxes.—Medium Size.

Price List.—Complete with Nipples.

No. 2247.

No.	For Brick or Terra Cotta	Without Cover
2241,	3 Outlets, 2 Mains, 1 Branch	$1 30
2247,	3 " 2 " 2 "	1 64
2237,	3 " 1 " 2 "	1 39
2258,	3 " 1 " 2 " Right	1 39
2256,	3 " 1 " 2 " Left	1 39
2256,	1 " 1 "	1 00
2249,	1 " 2 "	1 15

No.	For Lath and Plaster Work	Without Cover
2244,	3 Outlets, 2 Mains, 1 Branch	$1 49
2245,	4 " 2 " 2 "	1 74
2248,	3 " 1 " 2 "	1 49
2253,	3 " 1 " 2 " Right	1 49
2255,	3 " 1 " 2 " Left	1 49
2250,	1 " 1 "	1 10
2075,	2 " 2 "	1 26

No. 2236, 2250.

Dimensions: { For Brick or Terra Cotta Work, Inside Diameter, 5¼ inches. Depth, 1½ inches.
{ For Lath and Plaster " " " 5¾ " " 1⅞ "

The Threaded Outlets for both depths of Boxes, are placed so as to allow for the embedding of Conduit ⅛ of an inch under the surface of plaster for Terra Cotta or Brick work, and ¼ of an inch for Lath and Plaster.

Unless otherwise ordered we will supply the mains with ¾-inch and the branches with ½-inch Nipples. If Nipples are not to be used, see note on page 14. For larger Boxes, same style, see pages 16 and 18.

Diagrams of Outlets.

Nos. 2247, 2245.

Nos. 2241, 2244.

Nos. 2237, 2248.

Right, Nos. 2258, 2253.
Left, " 2256, 2255.

In ordering be careful to state the size of outlets required, and indicate the positions, if different from above diagrams.

Porcelain Cut-outs for above.

No. 705, 3¼ inches diameter.

No. 705. Double Pole Cut-outs for *Two Branch Circuits*. Binding Posts for Mains will take No. 4 solid wire. Binding Posts for Outlets, up to No. 12 solid. Price $0 90

No. 706. Double Pole *for One Branch Circuit only*, either Right or Left, especially adapted for No. 2242, Right or Left. Mains will carry No. 8 solid. Branches up to No. 14. Price 65

No. 706. 2¾ inches diameter.

SPECIAL NOTE.—Unless otherwise specified all Boxes in this Catalogue are lined with a heavy thickness of Asphaltic Paper, rendering them moisture-proof, and supplying a high electrical insulation. No metal being exposed on the inside, the continuity of insulation is maintained throughout the entire system.

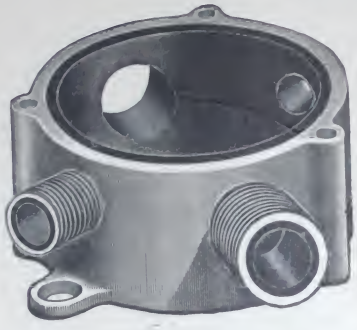
Iron Armored Insulating Conduit.—Boxes.

Branch Circuit Junction Boxes.—Small Size.

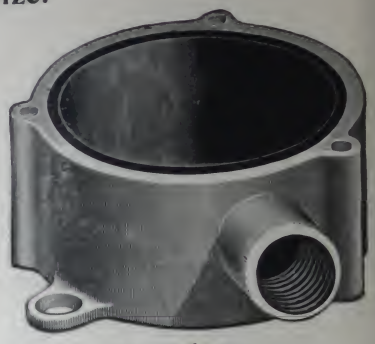
Price List.—Complete with Nipples.

No.	For Brick or Terra Cotta Work.	Without cover
2134,	3 Outlets, 2 Mains, 1 Branch	$1 20
2136,	4 " 2 " 2 "	1 45
2132,	3 " 1 " 2 "	1 20
2133,	3 " 1 " 2 " Right	1 20
2137,	1 " 1 " 2 " Left	1 20
2046,	1 " 1 "	85
2048,	1 " 2 "	1 10

No.	For Lath and Plaster Work.	Without cover
2140,	3 Outlets, 2 Mains, 1 Branch	$1 30
2141,	4 " 2 " 2 "	1 50
2138,	3 " 1 " 2 "	1 30
2139,	3 " 1 " 2 " Right	1 30
2142,	3 " 1 " 2 " Left	1 30
2072,	1 " 1 "	95
2074,	1 " 2 "	1 20



No. 2136.

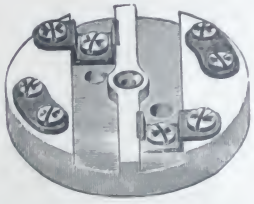


Nos. 2046, 2072.

For Brick or Terra Cotta Work, Inside Diameter, 2¼ inches; Depth, 1½ inches. For Lath and Plaster Work, Inside Diameter, 2¼ inches; Depth, 1⅞ inches.

For Diagram of Outlets, see Branch Circuit Junction Boxes, pages 16 and 17.

Outlets are placed so as to allow for the embedding of Conduit $\frac{5}{16}$ inch under the surface of plaster for Terra Cotta or Brick Work and ¾ of an inch for Lath and Plaster. We supply Nipples for ⅝-inch Mains and ⅜-inch Branches, unless otherwise ordered. If Nipples are not to be used, see note on page 14.



No. 710. Diameter 2 in.

Porcelain Cut-outs for above.

These Boxes being of small diameter, do not admit of using a Double Pole Cut-out for more than one Branch Circuit.

No.		Price.
710,	Double Pole for 1 Circuit, right or left or straight through	40c.
707,	" " " 1 " especially for right or left branches	55c.

No. 707. Diameter 2 in.

Intersection or Splicing Boxes.

Diameter Inside, 3¼ inches. Depth for Brick Work using ⅜-inch Conduit, 1½ inches. Depth for Lath and Plaster or for ⅝ or ¾-inch Conduit, 1⅞ inches. Thickness of Walls, $\frac{5}{16}$ inch. This Box is not intended to be used with a Cut-out.

Price List.—Including Nipples.

No.	For Brick or Terra Cotta Work.	Without cover
2252,	3 Outlets, 2 Side, 1 Bottom, ⅜ inch or ⅝ inch,	$1 39
2273,	2 " 2 " ⅜ " " ⅝ "	1 18
2240,	2 " 2 Side, ⅜ " " ⅝ "	1 18
2242,	2 " 2 " ⅜ " " ⅝ "	1 18
2250,	2 " 1 " 1 Bottom, ⅜ " " ⅝ "	1 18

No	For Lath and Plaster Work.	Without cover
2266,	3 Outlets, 2 Side, 1 Bottom, ⅜ inch or ⅝ inch,	$1 49
2274,	2 " 2 " ⅜ " " ⅝ "	1 28
2260,	2 " 2 " ⅜ " " ⅝ "	1 28
2265,	2 " 2 " ⅜ " " ⅝ "	1 28
2267,	2 " 1 " 1 Bottom, ⅜ " " ⅝ "	1 28

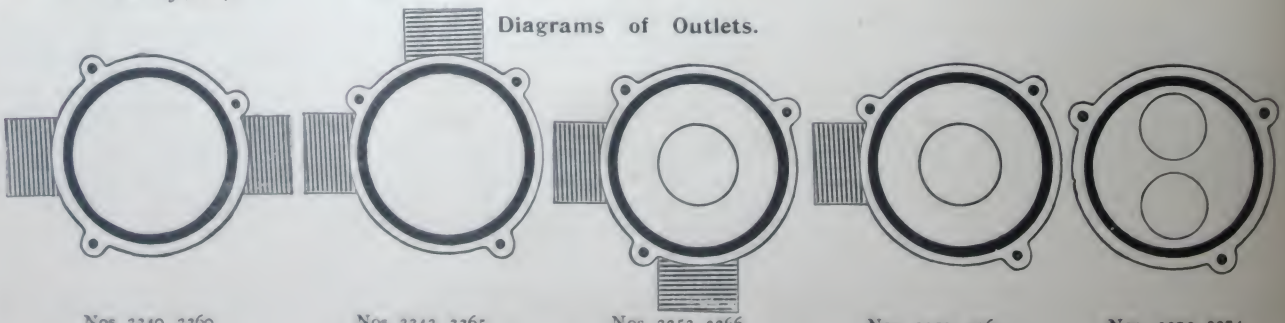
Nos. 2250, 2267.

Outlets are placed $\frac{1}{16}$ inch below rim of Box for Brick or Terra Cotta, and ¾ inch for Lath and Plaster Work.

No. 52 , Cover for 3¼-inch Boxes. List Price, 20c.

For other Covers, see page 20.

Diagrams of Outlets.



Nos. 2240, 2260. Nos. 2242, 2265. Nos. 2252, 2266. Nos. 2250, 2267. Nos. 2273, 2274.

If Nipples are not to be used, see note on page 14.

Iron Armored Insulating Conduit.—Boxes.

Outlet Boxes, with Fixture Support for Electric only.

Single Tube System.

Small Size.

Nos. 2046, 2072.

No. 2046, Outlet Box, 2¼ inches diameter, 1½ inches deep, and Cover (No. 527) List $1 40

" 2072, Outlet Box, 2¼ inches diameter, and Cover (No. 524), List . . 1 40

For Lath and Plaster add 8c. on 2¼-inch and 10c. on 3¼-inch. Lath and Plaster Boxes are made 1⅞ inches deep.

Unless otherwise specified in order Outlet Boxes are tapped for ½-inch Conduit. Fixture Support tapped for ⅜-inch only.

No. 521, Cover for 2¼-inch Boxes. For other Covers see page 20.

Porcelain Cut-out Blocks for above.

No. 710.

No. 770. An improved form of Porcelain Cut-out, designed for a Ceiling Pendant, but can be used in a Side Outlet Box for Portable Fixture or Fan Motor. The Cut-out is made in two parts. The base is supplied with heavy terminals, forming the contact pieces into which are placed the binding screws. Fuse leads are arranged on the porcelain plug, which can be removed when fusing, contacts are sliding, connections quickly and easily made, and the combination is adapted to all 2¼-inch Boxes. The prices below do not include box.

No. 710, Outlet or Tap Cut-out . . . price without leads, $0 40

" 770, Double Pole Porcelain Cut-out, " " " 65

Cut-out No. 770 as applied.

Outlet Boxes.—Large Size.

Nos. 2246, 2073.

No. 2246, Outlet Box, 3¼-inch diameter, and Cover (No. 528), List . . $1 60

No. 2073, Outlet Box, 3¼-inch diameter, and Cover (No. 525), List . . 1 60

Outlet tapped for ⅜, ½ and ¾-inch Conduits.

Fixture Supports for ⅜-in. only.

Boxes for Brick or Terra Cotta Work, 2½ inches deep; for Lath and Plaster Work, 1⅞ inches.

No. 525, Cover for 3¼ inch Boxes. For other covers see page 20.

Porcelain Cut-outs for above.

No. 705.

No. 705, Double Pole Cut-out for *Two Branch Circuits*. Binding Posts for Mains will take No. 4 solid wire. Binding Posts for Outlets up to No. 12 solid wire $0 50

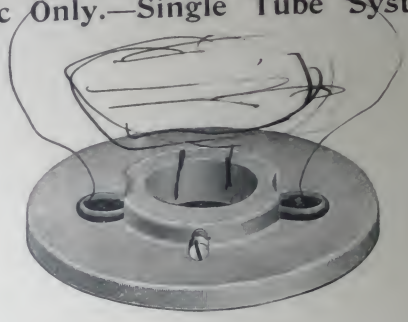
No. 706, Double Pole for *One Branch Circuit* only. Either Right or Left. Mains will carry No. 8 solid wire. Branches up to No. 14 B. & S. 65

No. 706.

Outlets for all Boxes on this page, are placed ⅛ of an inch from rim of Box for Brick or Terra Cotta; and ¼ of an inch for Lath and Plaster Work. Unless otherwise instructed, we ship Boxes for Brick Work. If Nipples are not to be used, see note on page 14.

Iron Armored Insulating Conduit.—Boxes and Covers.

Outlet Box, with Fixture Support for Electric Only.—Single Tube System.



No. 2075, Outlet Box, 2¼ inches diameter, with Cover, List $1 40
" 2079, " " 3¼ " " " " " " 1 55

Electric Outlets for ⅜ or ½-inch Conduit. Fixture Support Outlet for ⅜ or ½-inch Pipe. The Box is made for Brick Work. For Lath and Plaster Work, add 10 cents to the above list. The ordinary form of "Bug" Cut-out can be used in these Boxes.

Covers for Iron Armored Branch Junction or Outlet Boxes.

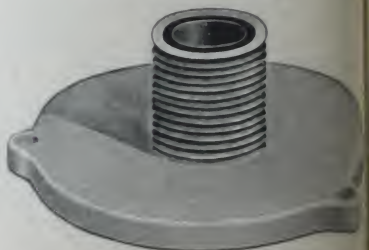
Covers for all Boxes have an Insulating Lining.

Nos. 537 and 541 for 2¼-inch Boxes.
" 538 " 546 " 3¼ " "
" 539 " 543 " 4⅜ " "

No. 524, Cover for 2¼-inch Boxes.
" 525, " 3¼ " "

No. 537,	Bronzed Polished Covers for 2¼-inch Round Box	$0 35
" 541,	Nickeled " " " 2¼ " " "	30
" 538,	Bronzed " " " 3¼ " " "	40
" 546,	Nickeled " " " 3¼ " " "	35
" 547,	Bronzed " " " 2¼ " " "	55
" 548,	Nickeled " " " 2¼ " " "	50
" 549,	Bronzed " " " 3¼ " " "	60
" 551,	Nickeled " " " 3¼ " " "	55
" 539,	Bronzed " " " 4⅜ " " "	60
" 543,	Nickeled " " " 4⅜ " " "	55
" 521,	Plain Cover for 2¼-inch Round Box	15
" 522,	" " " 3¼ " " "	20
" 536,	" " " 4⅜ " " "	30
" 524,	Cover with Nipple, Female Thread, for 2¼-inch Round Box	55
" 525,	" " " " " " 3¼ " " "	60
" 527,	" " " Male " " 2¼ " " "	55
" 528,	" " " " " " 3¼ " " "	60
" 530,	" " Rubber Bushing, " 2¼ " " "	35
" 531,	" " " " " 3¼ " " "	40
" 533,	" for 830 and 831 Receptacle " 2¼ " " "	20
" 534,	" " " " " 3¼ " " "	25

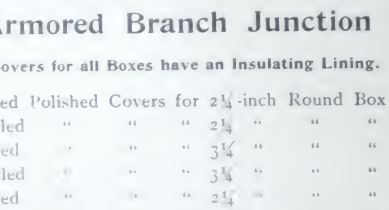
Nos. 547 and 548, for 2¼-inch Boxes.
" 549 " 551, " 3¼ " "
With Rubber Bushing.



No. 527, Cover for 2¼-inch Boxes.
" 528, " 3¼ " "

Covers for Round Branch Junction Boxes correspond in designs to those illustrated for Square Boxes (see page 60).
Nos. 527 and 528 are also fitted with ⅛-inch Nipples for direct connection to Lamp Socket.

No. 533, Cover for Receptacle Box No. 830, 2¼-inch
" 534, " " " 3¼ "

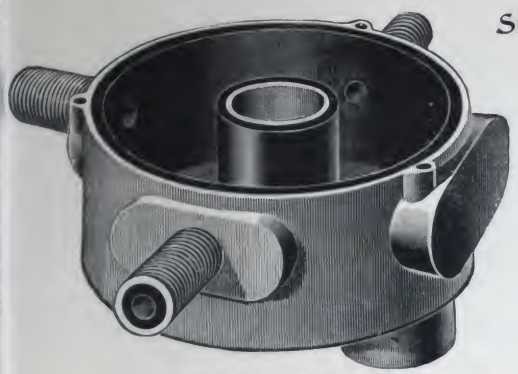


No. 530, Cover with Bushing, 2¼-inch.
" 531, " " 3¼ "

No. 521, Cover for 2¼-inch Boxes.
" 522, " 3¼ " "
" 536, " 4⅜ " "

Iron Armored Insulating Conduit.—Boxes.

Single Tube System.



Iron Box No. 917.

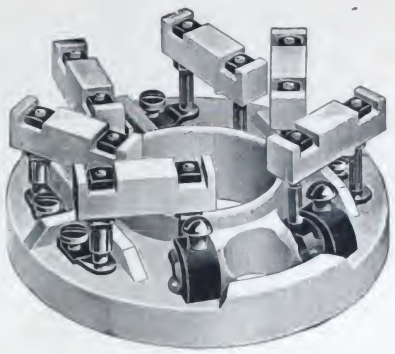
Outside Dimensions.

Iron Box.

Diameter, 5¼ inches; Depth, 2¼ inches.
" Gas Outlet, 1⅛ inches.
" Electric Outlet (inside), 1⅜ ins.

Porcelain Cut-out.

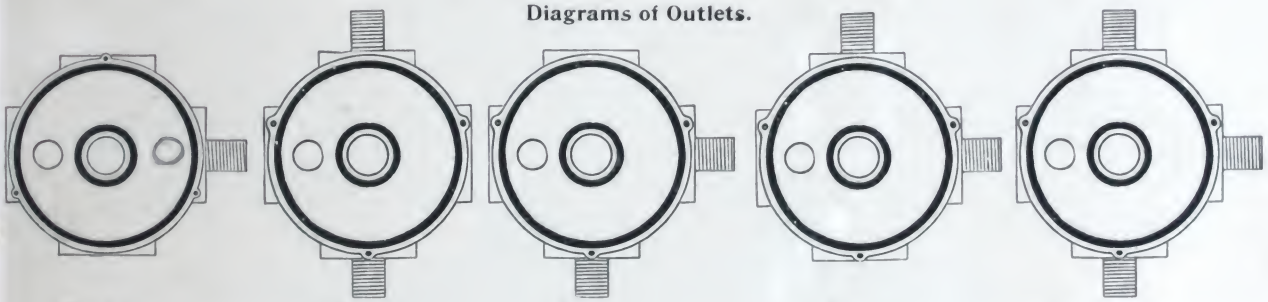
Diameter, 4⅜ inches.
Height, with Adjustable Fuses, 1¾ ins.



Porcelain Cut-out No. 715.

Combination Gas and Electric Branch Circuit Box and Cut-out.

Diagrams of Outlets.



No. 913. No. 914. No. 915. No. 916. No. 917.

This Box is designed especially for Hotels, Office Buildings, Apartment Houses and other Fire-proof Buildings where the Feeders are run between the Terra Cotta and floor boards, direct from the Cut-out Cabinets or Junction Boxes, to a center of distribution. This center may be located at the largest or most convenient electrolier of a suite or section of rooms, and the Box attached thereto. It will then supply the electrolier and two branches which are run on ceiling for side lights. The Box, being but five inches in diameter, admits the use of an ordinary size fixture shell. The Gas Outlet will receive all sizes up to ¾-inch (inside) gas pipe, which size will supply twenty burners fifty feet from the mains. The Main Electric Outlet, fed from the floor above, will receive up to and including ¾-inch Iron Conduit or Elbows, and the Branch Outlets ⅜-inch. If Nipples are not to be used, see note, page 14.

Cut-out No. 715 has Binding Posts for supply, that will carry Conductors up to No. 4 B. & S. Gauge. The Branch Terminals have been tested up to fifteen Amperes.

If over ten lights are required for an electrolier, we supply Porcelain Fuse Holders No. 695, having double the carrying capacity (see page 28), and fit any of the Fuse Terminals. The Cut-out will fuse two Branch Circuits, which may be taken out at either side, or at right angles; at the same time fusing fixture. Unless otherwise specified in order, we supply Fuse Holder No. 690. The Star Fixture Supports, illustrated on pages 24 and 25, can be advantageously employed with this Box.

Price List.—Including Nipples.

Iron Box.—Lined.

No. 913, 1 Main,	¾	inch; 1 Outlet,	⅜	inch inside diameter	.	$1	75
" 914, 1 "	¾	" 2 "	⅜	" " "	.	2	25
" 915, 1 "	¾	" 2 "	⅜	" " "	.	2	25
" 916, 1 "	¾	" 2 "	⅜	" " "	.	2	25
" 917, 1 "	¾	" 3 "	⅜	" " "	.	2	75

Other sizes of Outlets and combinations made to order.

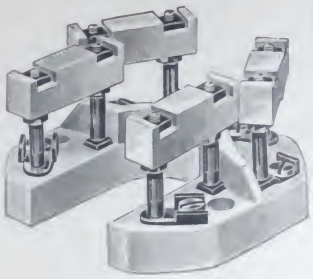
Porcelain Cut-out.

No. 715, Complete, as shown in cut, with 6 Fuse Holders . .	$2	05
" 716, Fitted with Binding Screws—no Fuse Holders . . .		90
" 695, Fuse Holders complete, extra heavy Terminals, without Fuse Leads . . . . . each		20
" 690, Fuse Holders complete, regular Terminals, without Fuse Leads . . . . . each		20
" 700, Copper-tipped Fuses, 3 or 6 Amperes . . . . "		05

For prices of parts of Fuse Holders, see page 28.

Iron Armored Insulating Conduit.—Boxes.

Single Tube System.



Cut-out No. 718.

Box No. 911.

Cover No. 912.

Combination Gas and Electric Outlet Box, with Cut-out.

This Box is designed to be used for side Outlets on walls or partitions. The diameter being small, a 4-inch Fixture Shell will cover it. Cover No. 912 admits of ready access to Box, and when in place, it effectually closes the Outlet against moisture. Cut-out No. 718 is designed to fuse two Branch Circuits, is fitted with the adjustable Fuse Holders, or will be supplied with Binding Screws only, so that the ordinary copper-tipped fuse may be employed. Unless otherwise specified in orders, we supply nipples for mains 5/8-inch, branches 3/8-inch, and place them 1/8 of an inch from rim for brick or terra cotta work and 3/4 of an inch for lath and plaster work. If Nipples are not to be used, see note, page 14.

If it is desired to fuse the fixture at which the box is located the cover can be omitted, the ends of conduit sealed with compound and the work thus made tight.

Price List.

Iron Box and Cover.

No. 911. As illustrated, one 5/8 and two 3/8-inch Nipples $1 60
Dimensions: Diameter, 3 5/8 in.: Depth, 1 5/8 in.
No. 912, Plain Iron Cover, Insulated Lining . . . 25

Porcelain Cut-out.

No. 718, Complete with four Adjustable Safety Fuses, $1 65
No. 719, Cut-out, without Adjustable Fuses, but having Binding Screws for Copper-tip Fuses . 35

Switch Box for Cutter and other Flush Switches.

No. 981.

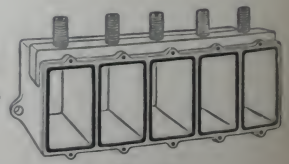
The Box, as illustrated, is designed for a Single Pole Flush Switch. We manufacture these Boxes for all makes of Flush Switches, either

Single Pole, Double Pole and for Three or Four Wires.

Where the installation is to be made before the partition walls are erected, we place the Outlets near the rear edge, on top, to clear the front wall of the terra cotta brick. If Nipples are not to be used, see note, page 14.

	Price
No. 981, Box with one 3/8-inch Nipple	$1 00
" 982, " " " 5/8 " "	1 00
" 986, Gang Switch Boxes. Prices on application.	

We do not sell these switches.



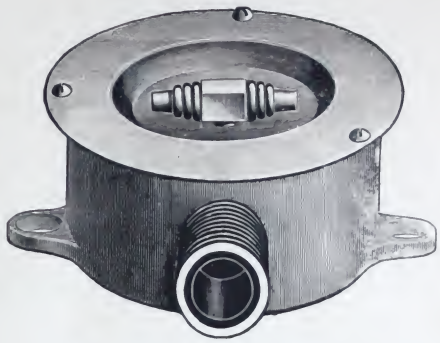
No. 986.

Iron Armored Insulating Conduit.—Boxes.

Flush Switches.

No. 733.

No. 798, Flush Cover.



Switch No. 733, In Iron Armored Box.

	Plain	Polished Brass
No. 731, Single Pole Switch, capacity, 5 Amperes, without Cover	$0 80	$0 85
" 733, Double " " " 10 " " "	85	90
" 799, Single " " " 5 " with Flush Cover	1 20	1 35
" 800, Double " " " 10 " " " "	1 25	1 45
" 798, Concave Switch Cover	10	15

Switches and Covers, listed above, will fit all Iron Armored Boxes of 2¼ inches in diameter; see page 18. Above prices do not include Box. Covers for these and other Switches will be furnished in Bronze, Antique Copper or Brass, or any desired finish to order.

Gang Switch Boxes.—Single Tube System.

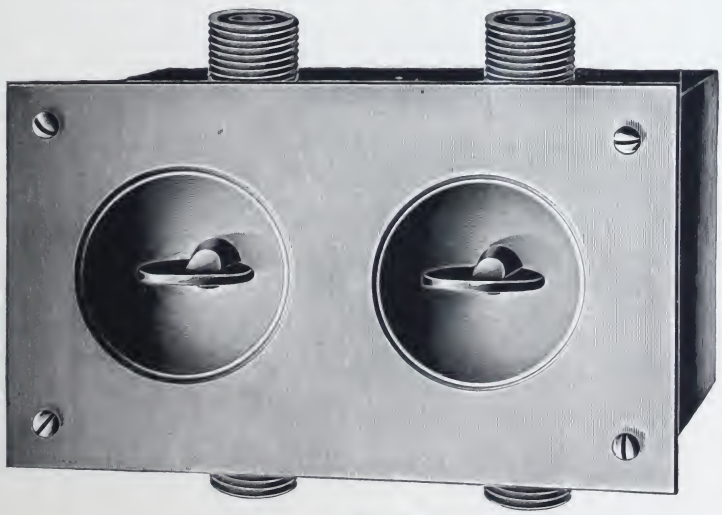
Dimensions.

(Inside.)

NO.	LENGTH	WIDTH	DEPTH
2424	3 in.	3 in.	2½ in.
2425	5½ "	3 "	2½ "
2426	8 "	3 "	2½ "
2427	10½ "	3 "	2½ "

These dimensions apply when the switches described below are employed.

Unless otherwise ordered we will supply Boxes with Nipples for ⅝-inch conduit.



No. 2425.

Covers.

Covers are made of heavy sheet brass, highly polished, and extend ¼ inch over rim of Boxes to cover up imperfections in the plastering.

Unless otherwise ordered we allow $\frac{5}{16}$ of an inch between Cover and Nipples for plastering.

These Boxes are adapted for either the No. 954 and No. 956, or No. 731 and No. 733 Switches, and will be made to order for any Standard Switch. Unless otherwise specified in orders we supply nipples for ⅝-inch conduit. If Nipples are not to be used, see note, page 14.

Price List of Boxes.—Including Nipples.

No. 2424, Iron Box Insulated, Polished Brass Cover, 2 Outlets for 1 Switch, 5, 10 or 25 Amperes	$3 00
" 2425, " " " " " " 4 " " 2 " 5, 10 " 25 "	4 75
" 2426, " " " " " " 6 " " 3 " 5, 10 " 25 "	7 00
" 2427, " " " " " " 8 " " 4 " 5, 10 " 25 "	9 00

Boxes for larger switches or for a greater number will be made to order. Switches are not included in above prices.

Iron Armored Insulating Conduit.—Boxes.

Combination Gas and Electric Fixture Support and Outlet Box.
Single Tube System.

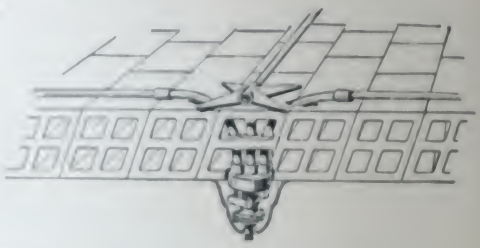
No. 665. Star Combination Outfit, is designed for use in Fire-proof structures, for either Brick or Terra Cotta Work. The Conduit and Gas Pipe are run between the Terra Cotta and floor boards, as filing.

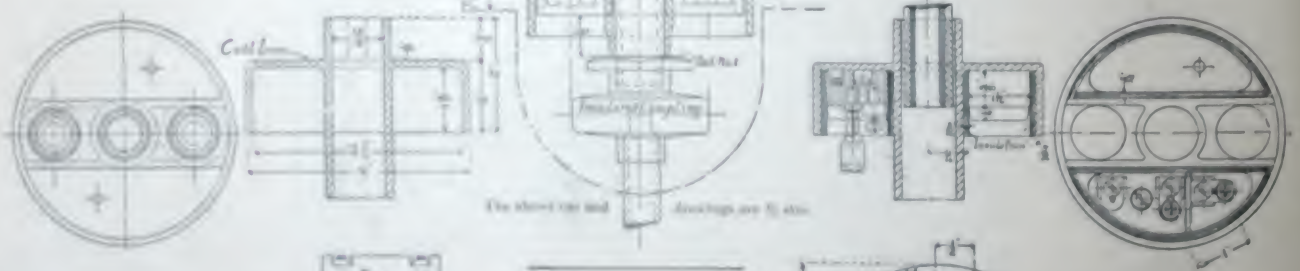
The "Star Tee" is tapped for ¾ inch Gas Main and ¾ inch deep—regularly—other sizes to order. This "Support" can be used with other boxes, see pages 21 and 33.

The Iron Outlet Box is insulated with enamel on the inside and is supported by a thin nut screwed on Gas Pipe.

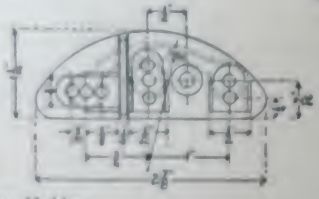
The two Single Pole Cut-outs are fitted with adjustable Fuse Holders, Nos. 690 or 695, which can be used either to fuse the Fixture Circuit, or to act simply as Terminal Binding Posts, if fusing is not practiced.

Combination, No. 665.





Porcelain Cut-out
No. 724.



Porcelain Block can also be used without Fuse Holder.

No. 665. Complete, as shown in cut, with Insulated Iron Box, two No. 724 Cut-outs, two Fuse Holders, one Set Nut, 8 inches Iron Pipe, and Star Tee Support . . $3 85

For ¾ inch Gas Pipe longer than 8 inches, add 3 cents per inch. Insulated Joint not included in above prices. We do not sell them.

No. 724. Single Pole Porcelain Cut-outs, each $0 30
" 690. Porcelain Fuse Holders, Regular Terminals and Sockets } 20
" 695. " " " Large " " " }
" 666. Thin Iron Set Nuts for ¾ inch Pipe, each 15

For parts of Fuse Holder and description, see page 28.
This Box admits of the use of a small Fixture Shell.

If fusing in the Outlet Box is not practiced, the Porcelain Blocks No. 724 will be supplied, fitted as Terminal Binding Posts.

Iron Armored Insulating Conduit.—Boxes.

Support for Electric Fixture.—Outlet Box and Cut-out.

Single Tube System.

Support No. 667.
For application, dimensions, etc., see page 24.

Fixture Support No. 667.

This Supporting Outfit is similar to No. 665, illustrated on page 24, except that the Star is designed for electric fixtures only. The conduit should be run between the floor boards and brick or terra cotta.

The center of Star is concaved to receive the round faced nut with the supporting pipe attached. This practically makes a ball joint and allows the Fixture to hang perpendicularly. The Support can be advantageously employed with boxes described and illustrated on pages 21 and 33.

The Iron Outlet Box is insulated with enamel on the inside, and is supported by a thin nut screwed on the iron pipe, underneath which the insulating joint is attached.

Two Single Pole Porcelain Cut-outs are supplied, to be fastened by screws to the Box.

These are each fitted with Nos. 690 or 695 Porcelain Fuse Holders, and admit of fusing the Fixture and the continuation of circuit.

If fusing at this point is not required we short circuit the fuse terminals. The cut-outs then supply three negative and three positive terminals.

For illustration of this Cut-out, Fuse, etc., see diagrams on page 24. A 5-inch Fixture Shell will cover Box and allow for ragged plastering.

Price List of Fixture Support, Box, Cut-out, etc.

No. 667.	Complete as shown in cut, with Iron Insulated Box, 2 No. 724 Cut-outs, 2 Fuse Holders, 1 Set Nut, 8 inches of ½-inch Pipe with Round Face Nut and Star Fixture Support	$3 40
"	724. Single Pole Cut-outs, each	56
"	690 and 695. Adjustable Porcelain Fuse Holders, each	20
"	666. Thin Iron Set Nut for Iron Pipe, each	13

For ½-inch Iron Pipe, longer than 8 inches, add 3 cents per inch.
We do not make or sell Insulating Joints.

Iron Armored Insulating Conduit.—Boxes.

Single Tube System.

No. 2640.

No. 2641.

Angle and Corner Insulating Boxes.—For Splicing or "Pulling-in" Conductors.

No. 2642.

No. 2640, Iron Insulated Box, with Two Nipples for ⅝-inch or ⅝-inch Conduit $1 85

" 2641, Iron Insulated Box, with Two Nipples for ⅝-inch or ⅝-inch Conduit 1 85

" 2642, Iron Insulated Box, with Two Nipples for ⅝-inch or ⅝-inch Conduit 1 85

Above prices include Plain Iron Covers and Screws fitted Unless otherwise specified in orders, we supply Nipples for ⅝-inch Conduit. If Nipples are not to be used, see note, page 14.

Dimensions.

No. 2640, inside, each angle, Length, 3 inches; Width, 3½ inches; Depth, 1½ inches.
" 2642, " " " " 3 " " 2⅝ " " 1½ "
" 2641, " " " " 3¼ " " 3⅛ " " 1½ "

The above Boxes are made for Brick or Terra Cotta Work, the Nipples being placed ⅛ of an inch from rim of Box, to allow for plaster to cover Conduit. Covers are made of thin iron, and extend ⅛ of an inch over rim of Boxes.

Some Features to be Specially Noted.

In order to provide for the complete imbedding of the conduits where brick and terra cotta is employed, and the thickness of plaster is insufficient to cover them, the practice is to cut channels. This practice is sufficiently objectionable, to justify us in the belief, that upon a proper presentation of the importance of so doing, architects will provide for the installation of our Iron Armored Conduits, before the partition walls are built.

That the Iron Armored Conduit permits of this practice, by virtue of its strength and resistance to nails, etc., is one of its strongest recommendations. For this practice it becomes necessary to provide a change in the position of outlets on boxes. This we do without extra charge, when advised that they are to be so employed.

Iron Armored Insulating Conduit.—Boxes.

Double Tube System for Direct Current only.

No. 2002.

Main Junction Boxes for Double Tube Mains and Double Tube Branches.

These boxes are manufactured similar to the above illustration, and have an insulating lining of asphaltic paper, which excludes all metal from the inside. They are made so that covers can be used.

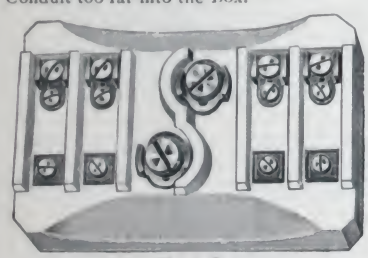
Unless otherwise specified in orders, we furnish above boxes for ¾-inch Main and ⅜-inch Branch Conduits.

Junction Boxes for Brick or Terra Cotta Work have the upper rim of holes parallel with and $\frac{5}{16}$ inch from rim of box.

" " " Lath and Plaster " " " " " " ¾ " "

No. 2002, Two Circuit, Main Line, for Brick.	Length 8⅝ inches;	Width 3⅞ inches;	Depth 3 inches, $6 50
" 2011, " " " " " " Lath and Plaster.	" 8⅝ "	" 3⅞ "	" 3¾ " 6 75

For prices of Box without Nipple, but having threaded outlets for Conduit, deduct from above list prices for each outlet as follows: For ⅜-inch, 9 cents; ½-inch, 10 cents; ¾-inch, 12 cents; 1-inch, 16 cents; 1¼-inch, 20 cents. We advise the use of Nipples, however, as at our works they are fitted flush with inside of Boxes before they are lined, thus keeping the insulating lining intact; which, during installation, is liable to be damaged by screwing Conduit too far into the Box.



No. 128.

Porcelain Cut-out for above.

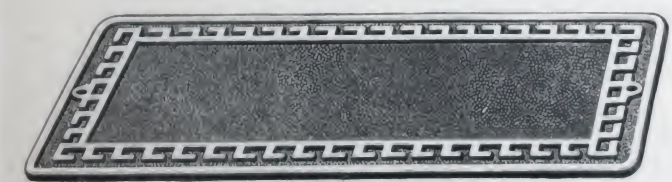
No. 128, Two Circuit Cut-out,

List Price, ... $1 90

Dimensions, 8 inches by 3¼ inches.

Porcelain, 1 inch thick.

Metal Covers for Junction Boxes.



Design No. 2062.

Design No. 2064, Plain Sheet Metal with Screw Holes.

Price List.

DIMENSIONS OF BOXES INSIDE	FINISH	DESIGNS No. 2062	DESIGNS No. 2064
8⅝ x 3⅞	Bronze Polished	$0 85	$0 75
	Nickel "	70	70
	Galvanized	75	25
	Plain Iron	55	55

Covers for all Boxes have an Insulating Lining.

The various designs of Covers illustrated above are made of fine cast-iron and plated with copper, brass or nickel. The embossed surfaces, being highly polished, present a very attractive appearance. If required, they can be oxidized to match any desired finish. Cast or sheet brass Covers are made to order only.

Iron Armored Insulating Conduit.—Fuse Blocks, etc.

Porcelain Fuse Holders.

Approved by the Underwriters' International Electric Association.

The need of a device that will enable the renewal of Fuses more quickly and with greater ease, has been a long felt want, especially where the Cut-outs are mounted in deep boxes and, perhaps, in dark or inaccessible places. By the use of these Fuse Holders, however, this trouble is overcome, as they can be supplied with the proper size Fuse at leisure and inserted into the receptacles on the Cut-out Block in a moment. They are interchangeable, durable, and, being made of Porcelain, have all the essential insulating qualities necessary. The Receptacles being made of Spring Brass, they adjust themselves to the contact pins; thereby making a good electrical contact. The Terminals No. 690 will safely carry Ten Amperes. For double that capacity we supply the Terminals No. 695, which are interchangeable with Sockets for No. 690.

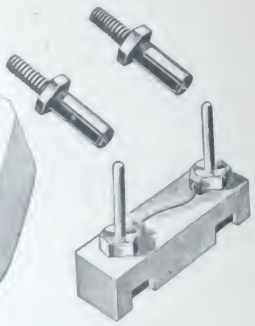
List Price Nos. 690 and 695.

Fuse Holders and Terminals	each	$0 20
Porcelain Pieces	"	03
Contact Pins and Nuts	"	05
Sockets	"	05

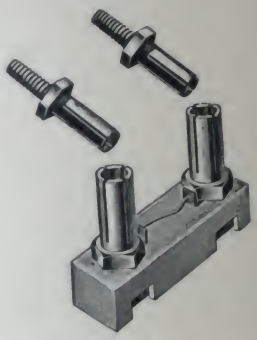
Copper-tipped Fuses.

No. 700, Three Amperes	$0 05
" 701, Six "	05

Illustration No. 846.



No. 690.

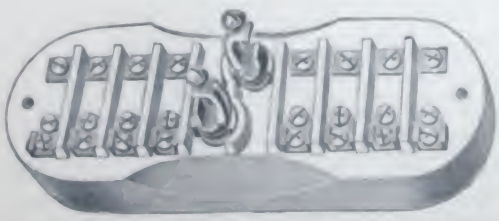


No. 695.

The above cut shows the Safety Fuse Holder in position on one of our regular Cut-out Blocks from which the ordinary Binding Screws have been removed. These Cut-out Blocks can be used in Cut-out Cabinets in the same manner as the Blocks and Plugs are now employed in the Edison and other systems.

Advantages of this Fuse Holder.

The Bridge Piece is made of Porcelain.
Fuses can be safely renewed while the current is on.
Renewals can be made in the dark, if necessary.
The excellent contact between Binding Posts and Terminals.
The regulation Copper-tipped Fuse is employed.
Fuses can be fitted to Holder at odd times.
The change can be made instantly and without tools.
Adapted to all regular Cut-out Blocks except Nos. 6, 27, 712, 705, 706, 710, 707.



Cut shows No. 1009 in position, the ordinary Binding Screws removed. This Binding Post is adapted to all our regular Cut-outs. It will permit the use of a larger size Conductor than the ordinary Binding Screw, and by its peculiar shape it binds more surface of the Conductor.

Actual Size
No. 1009.

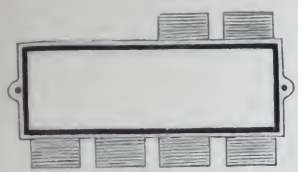
No. 1009, Improved Binding Post.

Complete, with Binding Screw, each . $0 15

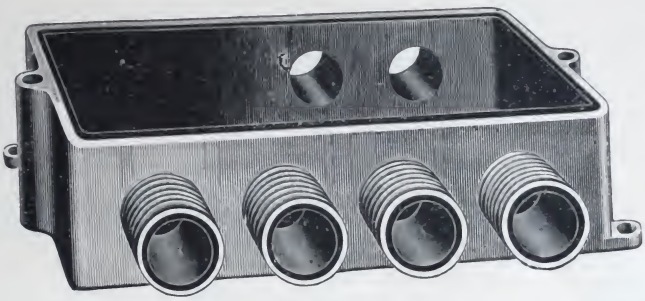
If so requested in orders we supply the Binding Post, on Cut-outs, without extra charge.

Iron Armored Insulating Conduit.—Boxes.

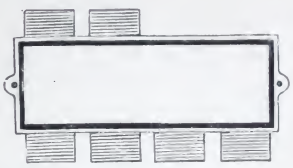
Feeder Terminal Junction Boxes.—Double Tube System.



No. 2091, Right.



No. 2091.



No. 2090, Left.

Price List of Boxes.—Including Nipples.

Two Wire System.

No. 2090, Left Hand, for Brick Work	$6 50
" 2091, Right " " " "	6 50
" 2092, Left " " Lath and Plaster Work	6 75
" 2093, Right " " " " "	6 75

Dimensions.

Nos. 2090 and 2091, Length, 8 5/8 ins.	Width, 3 7/8 ins.; Depth, 3 ins.
" 2092 " 2093, " 8 5/8 "	" 3 7/8 " " 3 3/4 "

Unless otherwise specified, these Boxes are supplied with Nipples for Risers for 1-inch Conduit; Mains, for 3/4-inch Conduit.

Outlets are placed 5/16 inch from rim of box for brick or terra cotta and 3/4 inch for lath and plaster work. If Nipples are not to be used, see note, page 14.

Single Tube System.

Combination Gas and Electric Side Outlet Box.

Nos. 680, 681.

Price List.

No. 680, 1 Outlet for 3/8-inch Conduit.	$1 45
" 681, 1 " " 5/8 " "	1 50
" 682, 2 " " 3/8 " "	1 50
" 683, 2 " " 5/8 " "	1 55

Unless otherwise specified all Boxes will be tapped for 3/8-inch gas pipe.

Nos. 682, 683.

These Boxes are designed to be used for side outlets on walls or partitions. The diameter being small, a 3 1/2-inch fixture shell will cover them. The hole on back of Box is tapped to receive a 3/8-inch gas pipe. The thread on gas pipe must be cut back so that the pipe will project through the Box a sufficient length to allow an insulating joint to be screwed on. All Boxes of this type are porcelain lined.

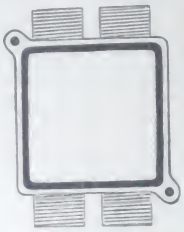
Outlets are placed so as to leave 5/16 of an inch for the hard finish of walls, between the outlets and front rim of Box for brick and terra cotta work, and 3/4 of an inch for lath and plaster.

Iron Armored Insulating Conduit.—Boxes.

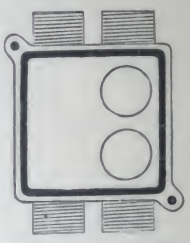
Splicing or "Pulling-in" Boxes.—Double Tube System.

Diagrams of Outlets.

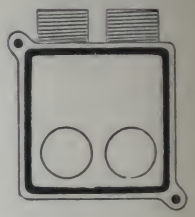
Nos. 2172 and 2173.



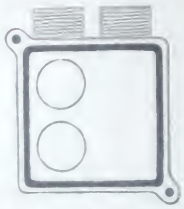
Nos. 2196 and 2165.



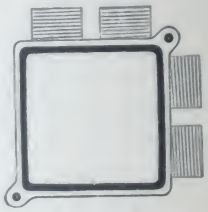
Nos. 2192 and 2166.



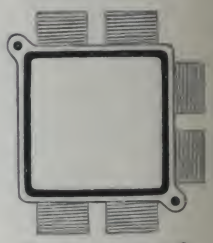
Nos. 2098 and 2167.



Nos. 2198 and 2174.



Nos. 2194 and 2175.



Nos. 2190 and 2178.

Inside dimensions: For Brick or Terra Cotta, Length, 6½ inches; Width, 6½ inches; Depth, 2¾ inches. For Lath and Plaster, Length, 6½ inches; Width, 6½ inches; Depth, 3½ inches.

Price List, including Nipples.

2196,	Two Wire System, for Brick or Terra Cotta, without Cover		$5 50
2192,	" " " " " " "		7 00
2098,	" " " " " " "		5 50
2173,	" " " " " " "		8 50
2165,	" " Lath and Plaster		5 75
2166,	" " " " "		7 25
2167,	" " " " "		5 75
2194,	Two Wire System, for Brick or Terra Cotta, without Cover		$5 50
2198,	" " " " " " "		5 50
2190,	" " " " " " "		7 00
2173,	" " " Lath and Plaster		8 75
2174,	" " " " " "		5 75
2175,	" " " " " "		5 75
2178,	" " " " " "		7 25

Unless otherwise specified in orders, Feeder Junction Boxes for Double Tube System are furnished with Nipples for 1-inch Conduit. If Nipples are not to be used, see note on page 14.

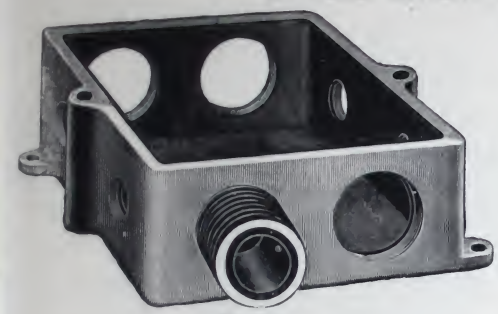
Covers to fit above Boxes are described and illustrated on page 60.

In ordering, be careful to specify the size of Conduit to be used, and if Cut-outs will be required. Outlets are placed ¼ inch from rim of Box for Brick or Terra Cotta Work, and ¾ inch for Lath and Plaster Work.

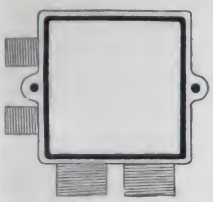
Cut-outs for these boxes are not carried in stock, but will be made to order at short notice, mounted on marbleized slate.

Iron Armored Insulating Conduit.—Boxes.

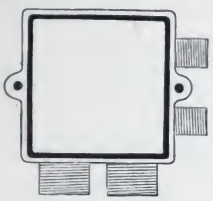
Branch Circuit Junction Boxes.—Double Tube System.



No. 2394.



Nos. 2390, 2391.



Nos. 2392, 2393.

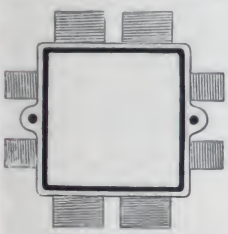
Price List.—Complete with Nipples.

No.											
2390,	4	Outlets,	2	Main,	2	Branch,	for	Brick	or	Terra Cotta	$4 50
2392,	4	"	2	"	2	"	"	"	"	"	4 50
2396,	6	"	2	"	4	"	"	"	"	"	6 00
2400,	6	"	2	"	4	"	"	"	"	"	6 00
2398,	6	"	4	"	2	"	"	"	"	"	6 00
2402,	6	"	2	"	4	"	"	"	"	"	6 00
2394,	8	"	4	"	4	"	"	"	"	"	7 75
2391,	4	"	2	"	2	"	"	Lath and Plaster			4 65
2393,	4	"	2	"	2	"	"	"	"	"	4 65
2397,	6	"	2	"	4	"	"	"	"	"	6 15
2401,	6	"	2	"	4	"	"	"	"	"	6 15
2399,	6	"	4	"	2	"	"	"	"	"	6 15
2403,	6	"	2	"	4	"	"	"	"	"	6 15
2395,	8	"	4	"	4	"	"	"	"	"	7 90

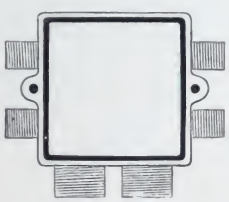
Inside Dimensions for Brick and Terra Cotta Work: Length, 4⅜ inches; Width, 4⅜ inches; Depth, 2½ inches.

Inside Dimensions for Lath and Plaster Work: Length, 4⅜ inches; Width, 4⅜ inches; Depth, 3 inches.

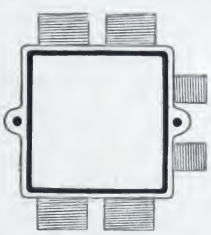
Unless otherwise specified in orders this Box will be shipped with Nipples for ¾-inch Conduit Mains and ⅜-inch Branches. If Nipples are not to be used, see note on page 14. Covers to fit this Box on page 58. Outlets are placed $\frac{5}{16}$ inch from rim of Box for Brick or Terra Cotta work, and ¾ inch for Lath and Plaster.



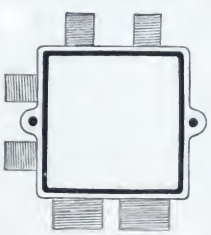
Nos. 2394, 2395.



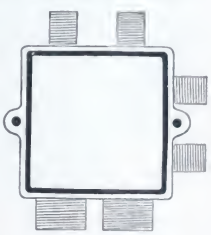
Nos. 2396, 2397.



Nos. 2398, 2399.



Nos. 2400, 2401.



Nos. 2402, 2403.

Porcelain Cut-outs for above.

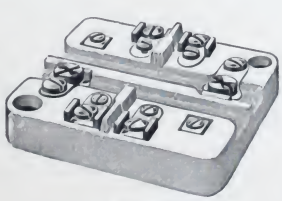
No. 713.

Complete with No. 1009 Binding Post and No. 690 Porcelain Fuse Holders; actual diameter, 3⅞ inches; height, 2 inches over all.

No. 713, Complete, as shown above, Price $2 05
No. 720, Without Fuse Holders, Price . 1 35
1 Set of 4 No. 690 or 695 Fuse Holders and Fuses, Price 80

For price of parts of Fuse Holder see page 28.

Main Binding Posts hold No. 2, and Branches No. 12 wires.

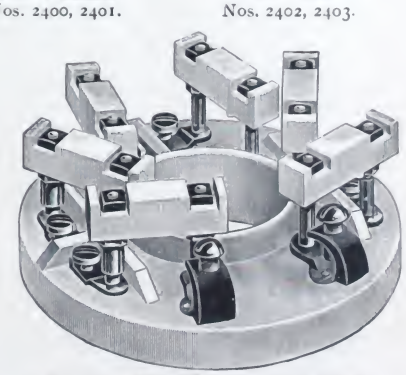


No. 712.

This Cut-out is fitted with No. 1009 Binding Post (see page 28), but is not adapted for No. 690 Porcelain Fuse Holder.

Actual size 3 x 3 inches. Main Terminal will hold No. 4 Solid Wire and Branches No. 12 B. & S.

No. 712, List Price, without Fuse Leads . $1 05
No. 722, List Price, with No. 1009 Binding Screw 1 30
List Price, 3 or 6-amp. Copper-tipped Fuses 05



No. 717.—Actual Diameter, 4⅜ inches.

No. 717, Complete as shown in cut, with 6 Fuse Holders $2 05
No. 716, Fitted with Binding Screws, no Fuse Holders 90
No. 695, Fuse Holder, Complete, Extra Heavy Terminal, no fuse . . . 20
No. 690, Fuse Holder, Complete, Regular Terminal, no fuse 20

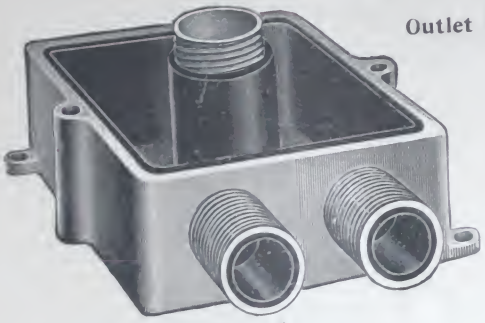
For prices of parts Fuse Holders see page 28.

Iron Armored Insulating Conduit.—Boxes.

Outlet Boxes.—Double Tube System.

Outlet Box, Cover and Fixture Support.

For Electric Only.



No. 2478.

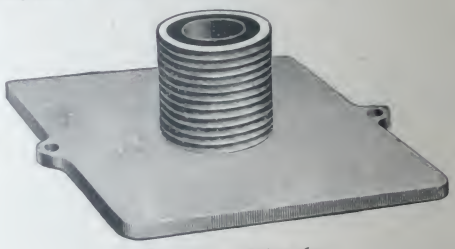
No. 544. Price, 65c.

No. 2478, Outlet Box for	⅜	-inch Conduit,	Brick or Terra Cotta Work—Inside,	Length,	3¼	inches;	Width,	3¼	inches;	Depth,	1½	inches,	$2	15
" 2479,	"	"	"	½	"	"	"	"	"	"	"	"	3¼	"	"	3¼	"	"	2	"	2	25
" 2480,	"	"	"	⅜	"	"	Lath and Plaster	"	"	"	3¼	"	"	3¼	"	"	2	"	2	20
" 2481,	"	"	"	½	"	"	"	"	"	"	3¼	"	"	3¼	"	"	2¼	"	2	30

The Fixture Support is threaded to receive a ¾-inch (inside) Brass Insulating Joint. When necessary to fuse in this Box the regular Bug Cut-out can be employed. Covers are not included in above prices.

Outlet Box, Cover and Fixture Support.—For Electric Only.

No. 2496.



No. 529. Price, 60c.

No. 2496, Outlet Box for	⅜	-inch Conduit,	Brick or Terra Cotta Work.	Length,	3¼	inches;	Width,	3¼	inches;	Depth,	1½	inches,	$1	90
" 2497,	"	"	"	½	"	"	"	"	"	"	"	"	3¼	"	"	3¼	"	"	2	"	2	00
" 2498,	"	"	"	⅜	"	"	Lath and Plaster	"	"	"	3¼	"	"	3¼	"	"	2	"	1	95
" 2499,	"	"	"	½	"	"	"	"	"	"	3¼	"	"	3¼	"	"	2¼	"	2	05

Extra outlets for these Boxes will be supplied to order, at the following list prices: ⅜-inch, 20c.; ½-inch, 22c. each.

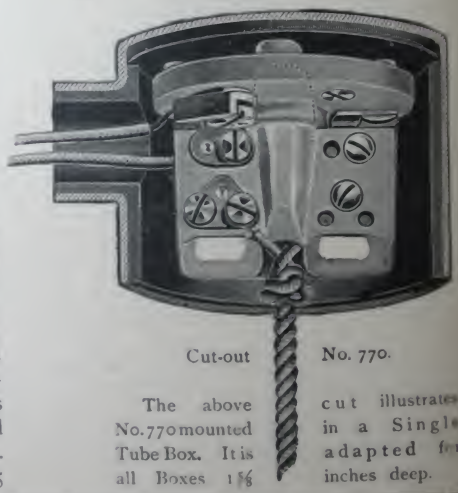
Covers are not included in above prices. Unless otherwise specified in orders, Cover No. 529 is supplied with threaded Nipple for ⅜-inch (Brass) Insulating Joint or Coupling. Outlets are placed ⅞ inch from rim of all above Boxes for Brick or Terra Cotta Work, and 3¼ inch for Lath and Plaster. If Nipples are not to be used, see note on page 14.

Porcelain Cut-outs for above.

No. 710.

No. 710, Outlet or Tap Cut-out $0 40

No. 770. An improved form of Porcelain Cut-out, designed for a Ceiling Pendant, but can be used in a side Outlet Box for Portable Fixture or Fan Motor. The Cut-out is made in two parts. The base is supplied with heavy terminals, forming the contact pieces, into which are placed the Binding Screws. Fuse Leads are arranged on the Porcelain plug, which can be removed when fusing. Contacts are sliding, connections quickly and easily made, and the cut-out is adapted to all 2¼-inch boxes. The price does not include Box. Double Pole Porcelain Cut-out, without leads $0 65

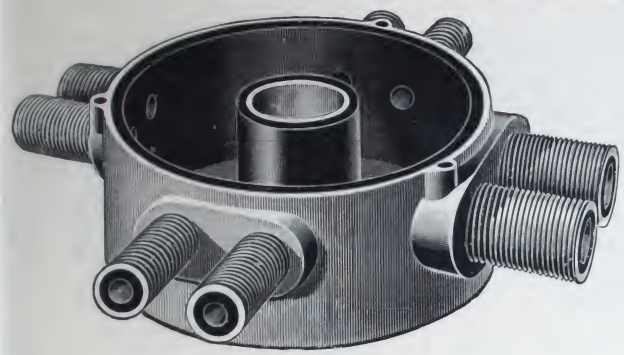


Cut-out No. 770.

The above cut illustrates No. 770 mounted in a Single Tube Box. It is adapted for all Boxes 1⅝ inches deep.

Iron Armored Insulating Conduit.—Boxes.

Double Tube System.



No. 2495.

Outside Dimensions.

Iron Box.

Diameter, 5¼ in.; Depth, 2¼ in.

Diameter Gas Outlet, 1⅛ in.

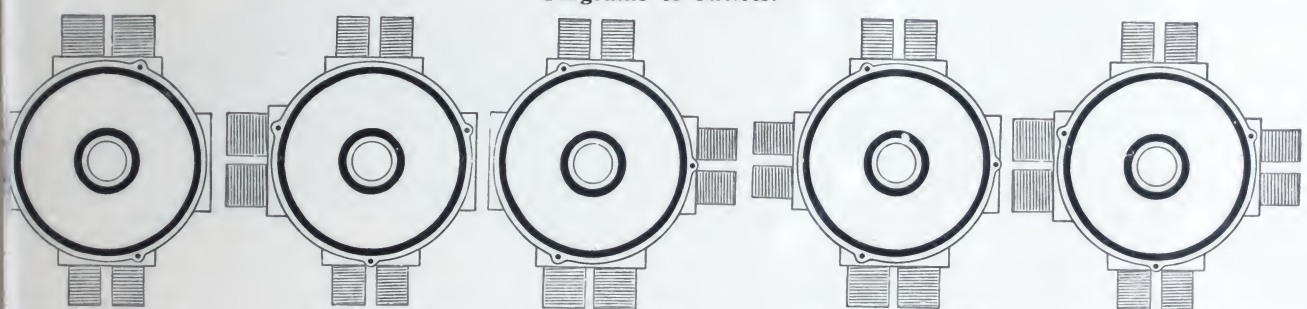
Porcelain Cut-out.

Diameter, 4⅜ in. Height, with adjustable Fuses, 1¾ in.

No. 717.

Combination Gas and Electric Branch Circuit Box and Cut-out.

Diagrams of Outlets.



Nos. 2486 and 2487. Nos. 2488 and 2489. Nos. 2490 and 2491. Nos. 2492 and 2493. Nos. 2494 and 2495.

This Box is designed especially for Warehouses, Theatres, Office, Government, Public and other large buildings that have extra thick plastered walls, where the Conduit for Feeders and Branches can be run in the plaster on the ceiling and side walls, direct from the Cut-out Cabinets or Junction Boxes, to a center of distribution. This center may be located at the largest or most convenient electrolier of a suite or section of rooms, and the Box attached thereto. It will then supply the electrolier and two Branches for side lights. The Box, being but 5 inches in diameter, admits the use of an ordinary sized Fixture Shell. The Gas Outlet will receive all sizes up to ¾-inch (inside) gas pipe, which size will supply 20 burners 50 feet from the mains. The main Electric Outlets have Nipples for ⅜ or ⅝-inch iron conduit or elbows and the Branch Outlets for ⅜-inch, unless otherwise specified in orders. If Nipples are not to be used see note on page 14.

Cut-out No. 717 has Binding Posts for supply and will hold conductors up to No. 2 B. & S. gauge. The Branch Terminals have been tested up to 15 amperes.

If over 10 lights are required for an electrolier, we supply Porcelain Fuse Holders No. 695 (see page 28), which fit any of the Fuse Terminals. The Cut-out will fuse two branch circuits, which may be taken out at either side, or at right angles, at the same time fusing fixture. Unless otherwise specified in orders, we supply Fuse Holder No. 690.

The Star Fixture Support, illustrated on pages 24 and 25, can be advantageously employed with this Box.

Price List.

Branch Junction Box.

No.										
2486,	2 Mains	⅜	inch,	2 Outlets	⅜	inch	Inside Diameter	. .	.	$2 25
2487,	2 "	⅜	"	2 "	⅜	"	" "	. .	.	2 25
2488,	2 "	⅜	"	4 "	⅜	"	" "	. .	.	2 75
2489,	2 "	⅝	"	4 "	⅜	"	" "	. .	.	2 75
2490,	2 "	⅜	"	4 "	⅜	"	" "	. .	.	2 75
2491,	2 "	⅝	"	4 "	⅜	"	" "	. .	.	2 75
2492,	2 "	⅜	"	4 "	⅜	"	" "	. .	.	2 75
2493,	2 "	⅝	"	4 "	⅜	"	" "	. .	.	2 75
2494,	2 "	⅜	"	6 "	⅜	"	" "	. .	.	3 25
2495,	2 "	⅝	"	6 "	⅜	"	" "	. .	.	3 25

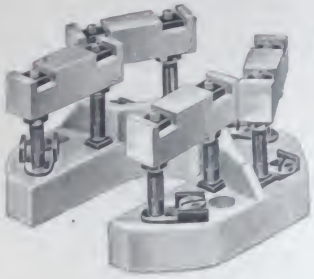
No. 717.—Porcelain Cut-out.

No.		
717,	Cut-out, Complete, as shown in cut, 6 Fuse Holders . .	$2 05
716,	Cut-out, with ordinary Binding Screws, no Fuse Holders .	90
695,	Fuse Holder, Complete, Extra Heavy Terminals, without Fuse Leads	20
690,	Fuse Holder, Complete, Regular Terminals, without Fuse Leads	20
700,	Copper-tipped Fuses, 3 or 6 Amperes, each	05

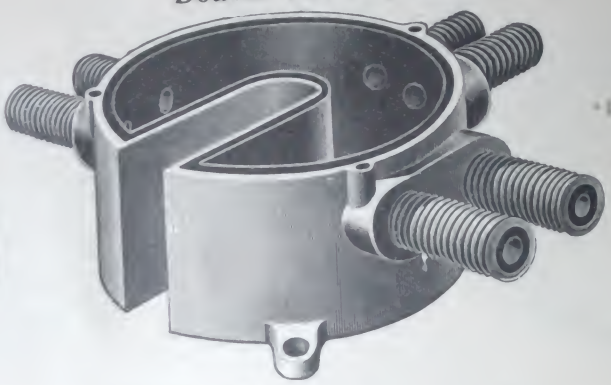
For price of parts of Fuse Holders, see page 28.

Iron Armored Insulating Conduit.—Boxes.

Double Tube System.



Cut-out No. 718.



No. 920.

Cover No. 912.

Combination Gas and Electric Outlet Box and Cut-out.

This Box is designed to be used for side Outlets on Walls or Partitions. The diameter being small, a 4-inch Fixture Shell can be used. Cover No. 912 admits of ready access to Cut-out, and when in place, it effectually closes the Box against moisture.

If it is desired to fuse the fixture at which the Box is located we supply cover with hard rubber bushing outlet; or the cover can be omitted, the ends of conduit sealed with compound and the work thus made tight.

Cut-out No. 718 will fuse two Branch Circuits. It is fitted with the Adjustable Fuse Holders, or will be supplied with Binding Screws, so that the ordinary Copper-tipped Fuses may be employed. Unless otherwise specified in order we supply Nipples for ¾-inch Conduit for Mains and Branches, placing them $\frac{1}{16}$ of an inch from rim for brick and terra cotta work, and ¾ of an inch for lath and plaster work. If Nipples are not to be used, see note page 14.

Price List.

Iron Box and Cover.

No. 920, As illustrated, with six ¾-inch Nipples . $2 25
Dimensions: Diameter, 3½ inches; Depth, 1⅜ inches.
No. 912, Plain Iron Cover, Insulated Lining . . $0 25

Porcelain Cut-out.

No. 718, Complete with four Adjustable Safety Fuses $1 65
" 719, Cut-out, without Adjustable Fuses, but having Binding Screws for Copper-tipped Fuses 85

No. 983.

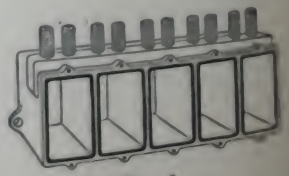
Switch Box for Cutter and other Flush Switches.

The Box, as illustrated, is designed for a 10 or 20-ampere Cutter, or Newton Flush Switch. We also manufacture these Boxes for all makes of Flush Switches; either **Single Pole, Double Pole, and Three or Four Wires.**

Where the installation is to be made before the Partition Walls are erected, we place the Outlets near the rear edge, on top, to clear the front walls of the Terra Cotta Brick. If Nipples are not to be used, see note page 14.

No. 983, Box, with two ¾-inch Nipples . . $1 25
" 989, Gang Switch Box. Prices on application.

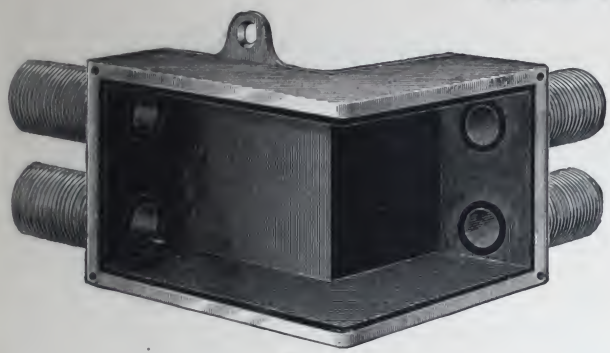
We do not sell these Switches.



No. 989.

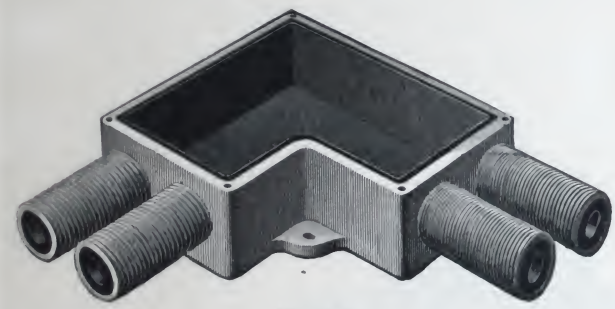
Iron Armored Insulating Conduit.—Boxes.

Double Tube System.



No. 2643.

No. 2644.



No. 2645.

Angle and Corner Insulating Boxes,

For Splicing or "Pulling-in" Conductors.

NO.		
2643,	Iron Insulated Boxes, with four Nipples for ⅜-inch Conduit	$2 25
2644,	" " " " " " " ⅜ " "	2 25
2645,	" " " " " " " ⅜ " "	2 25

The above prices include Plain Iron Cover and Screws fitted. These Covers extend ¼ inch over the rim of Box.

For Boxes with ⅝-inch Nipples, add 10 cents to above list prices for each Nipple.

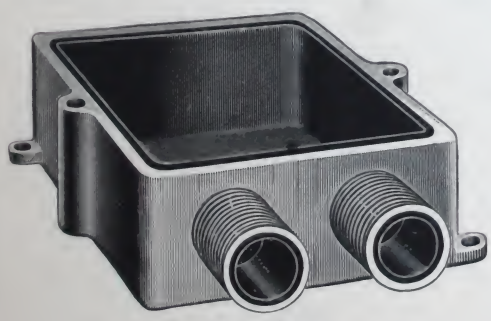
Dimensions.

NO.				
2643,	Inside each angle, length 3 ins.;	width 2½ ins.;	depth 1½ ins.	
2644,	" " " " 3 "	" 2½ "	" 1½ "	
2645,	" " " " 3¼ "	" 2½ "	" 1½ "	

If Nipples are not to be used, see note on page 14.

These Boxes are made for Brick or Terra Cotta work, the Nipples being placed $\frac{5}{16}$ of an inch from rim of Box to allow plaster to cover Conduit.

Outlet or Switch Box.—Double Tube System.



Nos. 2404 and 2407.

This Box, being but 2½ inches square, is especially adapted for use with flush switches, described on page 36.

Flush Cover No. 804, for use with this Box, is similar in design to No. 801, except that the flange is reduced in proportion to the size of the Box. This cover is illustrated and listed on page 36.

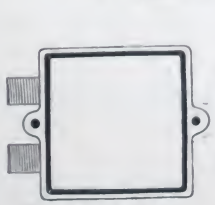
Price List.—Complete with Nipples.

No. 2404,	Box for Terra Cotta or Brick work,	2	outlets,	⅜ or ⅝	in., price			$1 15
" 2405,	" " " "	4	"	"	"			1 70
" 2406,	" " " "	4	"	"	"			1 70
" 2407,	" Lath and Plaster	2	"	"	"			1 25
" 2408,	" " " "	4	"	"	"			1 80
" 2409,	" " " "	4	"	"	"			1 80

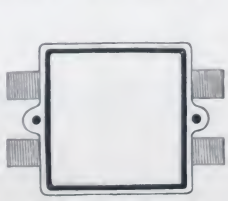
Inside dimensions for Brick or Terra Cotta: Length 2½"; width 2½"; depth 1¾"
" " " Lath and Plaster: " 2½" " 2½" " 2¼"

Outlets are placed $\frac{5}{16}$ of an inch from rim of Box for Brick and Terra Cotta work and ¾ of an inch for Lath and Plaster.

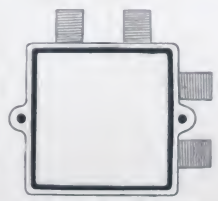
If Nipples are not to be used, see note on page 14.



Nos. 2404 and 2407.



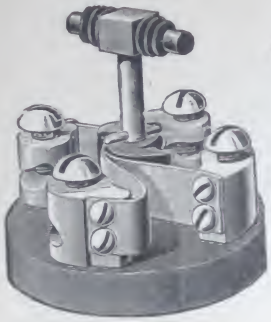
Nos. 2405 and 2408.



Nos. 2406 and 2409.

Iron Armored Insulating Conduit.—Boxes.

Double Tube System.



No. 733.

Polished Brass Cover No. 801.

Iron Armored Box No. 2404.

Flush Switches.

No. 731,	Single Pole Switch,	capacity,	5	amperes,	without	Cover,	price,	Plain	. .	$0 80	Polished Brass	. .	$0 85
" 733,	Double "	"	"	10	"	"	"	"	. .	85	" "	. .	90
" 802,	Single "	"	"	5	"	Flush	"	"	. .	1 30	" "	. .	1 50
" 803,	Double "	"	"	10	"	"	"	"	. .	1 35	" "	. .	1 55
" 801,	Concave Cover for 3¼-inch Square Iron Box							"	. .	15	" "	. .	20
" 804,	" " "			2½	"	"	"	"	. .	15	" "	. .	20

Switches and Covers shown above will fit all Iron Armored Boxes 2½ and 3¼ inches square. For description and list prices see page 35. Above prices do not include Box.

Gang Switch Box.

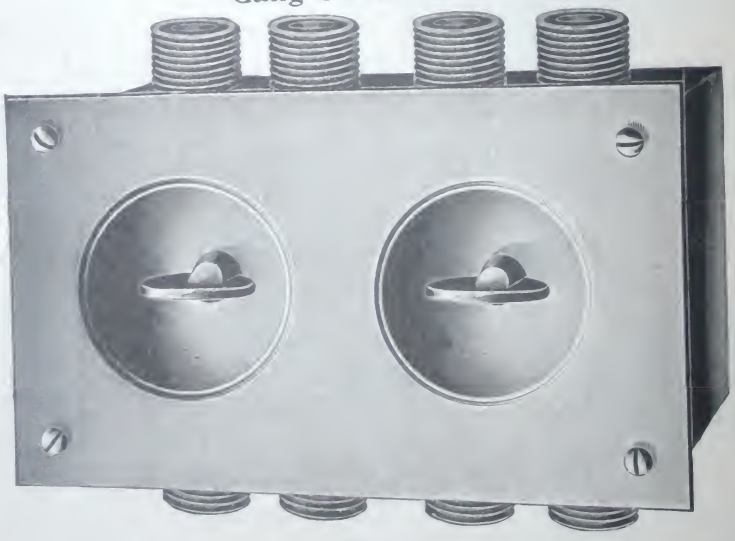
Dimensions.

(Inside.)

NO.	LENGTH	WIDTH	DEPTH
2428,	3 ins.	3 ins.	2½ ins.
2429,	5½ "	3 "	2½ "
2430,	8 "	3 "	2½ "
2431,	10½ "	3 "	2½ "

These dimensions apply when the switches described below are employed.

Unless otherwise specified in orders, we will supply Box with Nipples for ¾-inch Conduit.



No. 2429.

Covers.

Covers are made of heavy sheet brass, highly polished, and extend ¼ inch over rim of Boxes to cover up imperfections in the plastering. Unless otherwise ordered we allow $\frac{5}{16}$ of an inch between Cover and Nipples for plastering.

These Boxes are adapted for either the No. 954, 956 or 731, 733 Switches, and will be made to order for any standard switch. In ordering be careful to give the sizes of Conduit to be used and the position of outlets.

If Nipples are not to be used, see note on page 14.

Price List of Boxes, including Nipples.

No. 2428.	Iron Box,	Insulated,	Polished Brass Cover,				4	Outlets for	1	Switch,	5,	10	or	25	Amperes	. . . . .	$3	25
" 2429,	"	"	"	"	"	"	8	"	"	2	"	"	"	"	. . . . .	5	30	
" 2430,	"	"	"	"	"	"	12	"	"	3	"	"	"	"	. . . . .	7	30	
" 2431,	"	"	"	"	"	"	16	"	"	4	"	"	"	"	. . . . .	9	45	

Boxes for a greater number of switches will be made to order.

Iron Armored Insulating Conduit.—Tools.

In order to facilitate the introduction of the Iron Armored Insulating Conduit, we have selected from the various manufacturers, an assortment of tools which are adapted for use in the installation of this system, which we illustrate and describe.

The Pipe Cutter should be used only to cut through iron, and *not through the Insulating Lining.* A Hack Saw should be used for cutting the latter, after which the "burr" on the iron, and uneven edges of lining, may be removed by inserting the Butt Reamer (see page 38)—a few turns of which will leave the surface smooth and true. *This is necessary to secure perfect work.* It should be made a rule and strictly adhered to. Tools listed on pages 37, 38, 39 and 40 (except Butt Reamer), not being of our own manufacture, the prices are subject to change without notice.

D. Saunder's Sons' Wheel Pipe Cutter.

One Wheel and Roller Pipe Cutter.

Patent Three Wheel Cutter.

Price List.

	SINGLE WHEEL			THREE WHEEL		
Number	1	2	3	1	2	3
Cuts Conduit from	⅜" to ¾"	¾" to 1½"	1½" to 2½"	⅜" to ¾"	¾" to 1½"	1½" to 2½"
Price, Complete	$1 50	$2 25	$5 45	$1 50	$2 25	$5 45
" Extra Block and Wheel	60	85	1 35	60	85	1 35
" " Wheels	10	15	30	10	15	30
" " Rollers	10	15	30			

Stanwood Pipe Cutters.

Price List.

Number	1	2	3
Cuts Conduit from	⅜" to ⅝"	⅝" to 1½"	1½" to 2½"
Price, Case Hardened	$1 00	$1 50	$4 65
" Steel Faced	1 15	1 65	4 95
" Cutter Wheels	10	10	15
" " Blocks & Wheels	25	40	65
" Extra Pins	10	10	10

Barnes' Three Wheel Cutter.

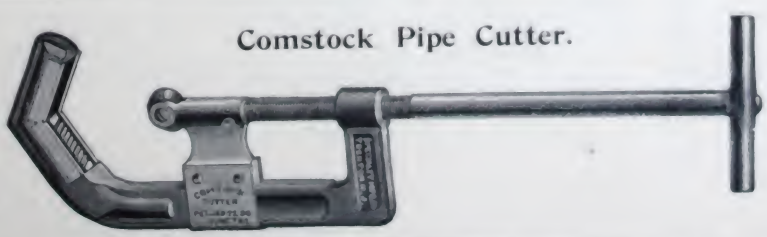
Price List.

Number	1	2	3
Cuts Conduit from	⅜" to ¾"	⅜" to 1½"	1¼" to 2½"
Price	$1 35	$1 80	$3 00
" Extra Cutter Wheels	10	10	15
" " Wheel Pins	05	05	05

Comstock Pipe Cutter.

Price List.

No. 1, cuts from ⅜-inch to 1-inch . . $1 20
No. 2, cuts from ¾-inch to 2-inch . . 1 60
No. 3, cuts from 1-inch to 2½-inch . 2 70



Parts.

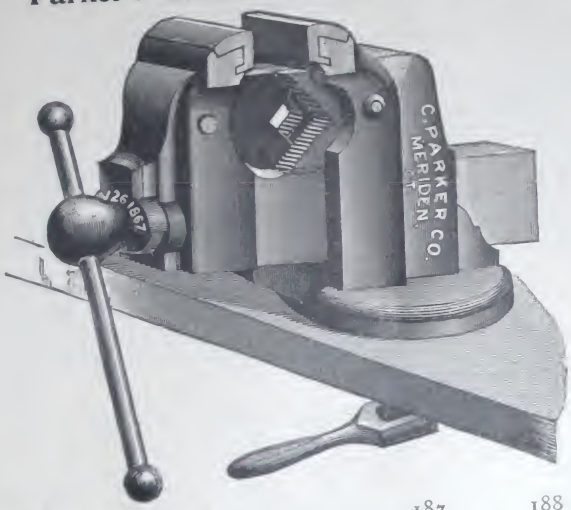
No. 1, extra Cutter Wheels . . $0 10
No. 2, extra Cutter Wheels . . 10
No. 3, extra Cutter Wheels . . 15

General Offices and Works, 527 West Thirty-fourth Street, New York.

The above are Net Prices.

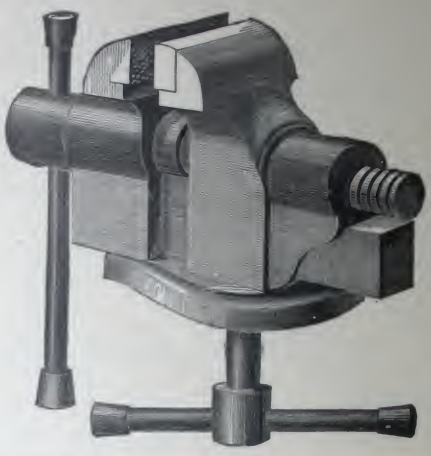
Iron Armored Insulating Conduit.—Tools.

Parker's Combination Pipe Vises.



		187	188
Number			
Holds Conduit from		⅜ to 2	⅜ to 3
Size of Jaws	Inches	3⅝	4⅛
Weight	Pounds	41	59
Price each		$7 95	$9 90

Bench Vises.



Holds Conduit from . . . . . ⅜ to 2½
Price, each $5 95

Malleable Iron Pipe Vises.

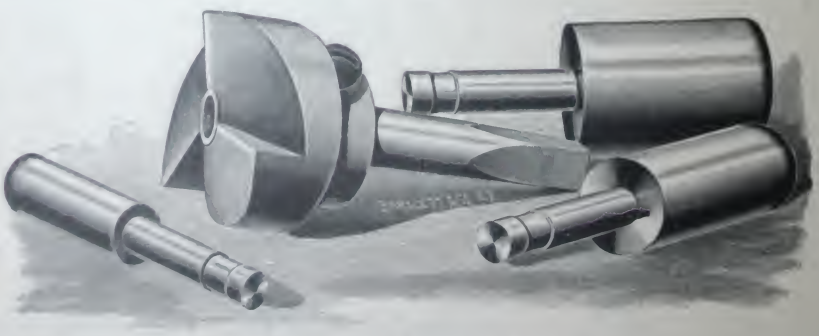
Price List.

Number	1	2
Holds Conduit from	⅝–1½	⅝–2½
Weight, pounds	20	26
Price	$2 50	$3 85
Extra Jaws, per set	90	1 35

Butt Reamer.

Untrimmed.

Trimmed.



No. 158. Universal Reamer (5 Mandrels).

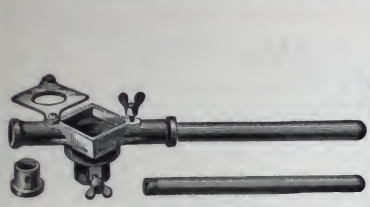
Size of Conduit . . . . . ⅜ to 1¼ Price $1 50

This Reamer is fitted for use with the ordinary Brace. It should be used after a cut has been made, to remove the "burr" from Iron Armor and to true up the end of conduit. This operation should be performed before the thread is cut.

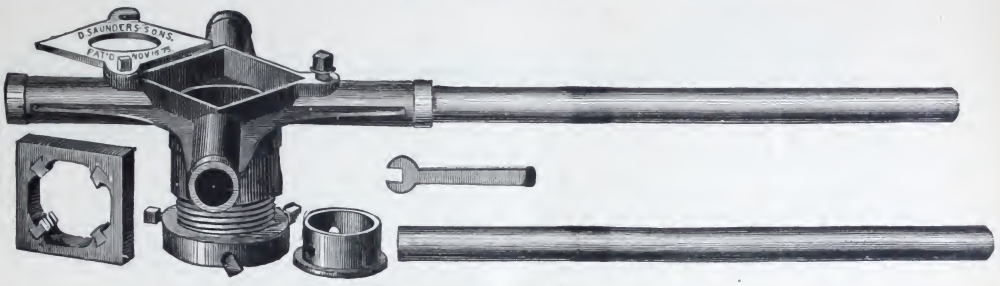
The above are Net Prices.

Iron Armored Insulating Conduit.—Tools.

Saunder's Malleable Iron Die Stocks, with Loose Handles and Solid Dies.



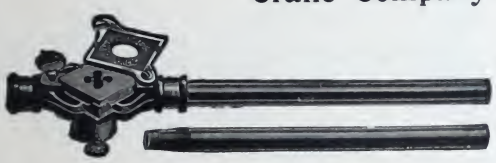
Nos. 1½, 2¾, 3.



No. 4—Improved.

Number	1½	2¾	3	4—Improved
Dies to Thread	⅜″, ½″, ¾″	¾″, 1″, 1¼″	1″, 1¼″, 1½″	2″ to 2½″
Dimensions of Dies	2½″ x ¾″	3″ x ⅞″	4″ x ⅞″	5″ x 1¼″
Stock and Dies, Complete	$2 90	$5 30	$6 60	$17 60
Extra Dies	65	1 00	1 35	5 50
" Bushings	10	15	15	35

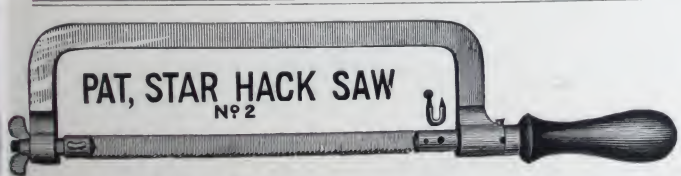
Crane Company's Stocks and Dies.



Nos. C, D, E.

No. G.

Number	C	D	E	G
Dies furnished with each Stock	⅜″, ½″, ¾″	¾″, 1″, 1¼″	1″, 1¼″, 1½″	2″, 2½″
Dimensions of Dies	2½″ x ¾″	3″ x ⅞″	4″ x ⅞″	
Stock and Dies, Complete	$2 40	$3 15	$4 50	$12 75
Stock without Dies	1 35	1 65	2 60	
Extra Dies, Right or Left	55	70	95	1 70
" Bushings, each	10	10	15	1 25



No. 2, Solid Frame, to hold eight-inch blades only, and face them in four directions. Polished and nickel-plated.

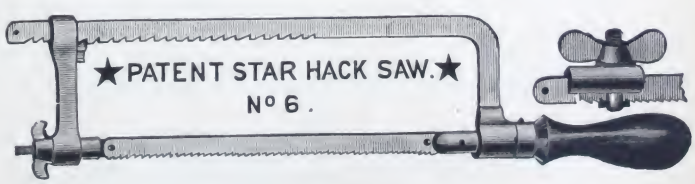
Price, No. 2, each . . . . . 60c.

Star ★ Saws.

These are superior tempered saws, having fourteen teeth to the inch. These blades are as they come from the tempering furnace. The strength and temper would be injured by any subsequent polishing.

Length of Blade	6″	7″	8″	9″	10″	11″	12″
Price per Dozen	$0 45	$0 50	$0 55	$0 60	$0 70	$0 80	$0 85
" " Gross	5 35	5 95	6 45	6 95	8 40	9 40	10 40

Assorted, 6″ to 9″, Price, per Dozen, 55c.; per Gross, $6 45



Improved Steel Frame, extra heavy and stiff. It is highly polished, heavily nickel-plated, and will *face the blades in four directions.* This No. 6 Frame will hold all blades from three to twelve inches, and with the extra clamp, as shown in cut, will hold all broken blades.

Price, No. 6 Frame, each $0 85
" Extra Clamp " 15

General Offices and Works, 527 West Thirty-fourth Street, New York.

The above are Net Prices.

Iron Armored Insulating Conduit.—Tools.

Stillson's Wrenches.

Length open, inches	10	14	18	24	36	48
Takes from	⅜–¾	⅜–1	⅜–1½	⅜–2	⅜–2½	¾–2½
Price, each	$0 95	$1 25	$1 70	$2 50	$5 00	$7 55
Extra Frames	15	20	25	25	30	40
" Nuts	15	15	20	20	25	30
" Jaws	30	40	55	80	1 70	2 50

Chain Pipe Tongs.

Number	2	3
Length of Lever, feet	2¾	3
Diameter of Chain, inches	5/16	5/16
Weight, pounds	7	12
Takes Conduit	¾–1½	1–2½
Price, each	$2 00	$2 40

Wrought-iron Pipe Hooks,

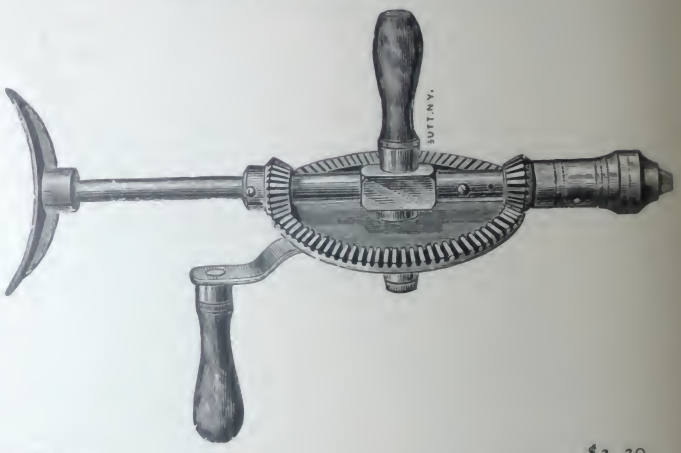
For Securing Conduit.

⅜-inch,	price per	100,	$0	20
½	"	"	"	25
¾	"	"	"	30
1	"	"	"	35
1¼	"	"	"	50
1½	"	"	"	60

Straps.

Malleable Iron, plain or tinned . . 10 cents per pound

Breast Drill No. 13.



Price each $3 30

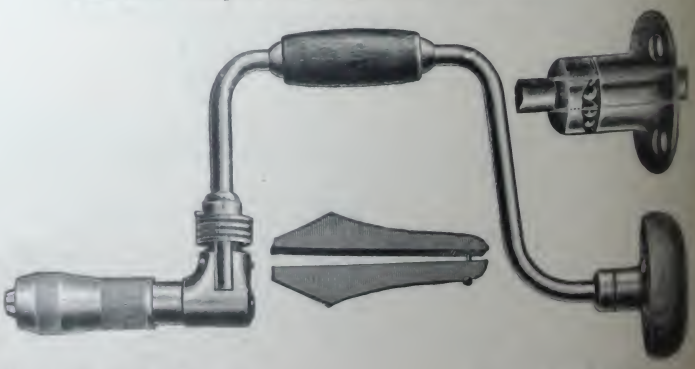
Common Pipe Tongs.

Size, inches	⅜	⅝	¾	1	1¼	1½
Price, each	$0 30	0 35	0 40	0 65	0 75	90

EXTRA HEAVY AND STRONG.

Size, inches	⅜	⅝	¾	1	1¼	1½	2	2½
Price, each	$0 70	0 90	1 00	1 20	1 40	1 70	2 40	3 05

Barber Improved Ratchet Brace.



No. 30, 14-inch	Sweep	. . . .	each, list,	$1 75
" 31, 12	" "	. . . .	" "	1 60
" 32, 10	" "	. . . .	" "	1 50
" 33, 8	" "	. . . .	" "	1 35
" 34, 6	" "	. . . .	" "	1 25

Brown's Adjustable Pipe Tongs.

Number	2	3	4
Takes Conduit, inches	⅜–1	¾–1½	1¼–2½
Price	$0 55	$0 85	$1 65

Combination System,

Using both Iron and Brass Armored Conduit.

Illustration showing the application of the *Combination Coupling* or "*Connecting Link*" between the two systems—Iron Armored Conduit, and Brass Armored Conduit, both being of ⅜ inch inside diameter. The union, if properly made—by the use of white lead on the iron threads and the crimping tool on the brass coupling—will be a perfect joint.

The above Illustration shows a Cross Section of a ⅜-inch Iron Armored Insulating Conduit and a ½-inch Brass Armored Conduit; the union being properly made. Both ends of insulation abut. The joint being clean and smooth, the continuity of insulation is maintained throughout.

THE demand for this system has arisen principally from its flexibility; also, from the fact that the diameter of the Brass Armored Conduit is less than that of the Iron Armored. In modern fire-proof structures, the thickness of plaster ordinarily used on walls will always cover the ⅞-inch Brass Conduit, and usually the 1⅛-inch, without having to channel the walls. This channeling being a considerable item in the general expense of the installation, the labor thus saved should be an important consideration in the present era of lofty fire-proof structures, where the specifications do not provide for "Furring" or a sufficient thickness of plaster to cover the Iron Armored Conduit.

During the past four years the prevailing manner of installing the Brass Armored Conduit has been to run the branches on the ceiling and side walls, and the mains and feeders on the floors.

The result has been universally satisfactory with the branch circuits, both electrically and mechanically; the conduit being practically out of harm's way. With the larger sizes of conduit, used for mains and feeders, however, perfect results have only been obtained by constant vigilance in protecting these Brass Armored Conduits from mechanical injury, by covering with boards, etc., during the construction of the Building.

By the use of the Iron Armored Conduit on the floors this difficulty is entirely removed; the iron armor giving every needed protection.

These Combination Couplings are also necessary in connecting the Brass Armored Double Tube System to the Single Tube Iron System, at Junction Boxes, Cut-out Cabinets, etc., and when the Feeders or Risers are run in separate Brass Armored Conduits on account of their size, or to avoid induction when the Alternating System is employed.

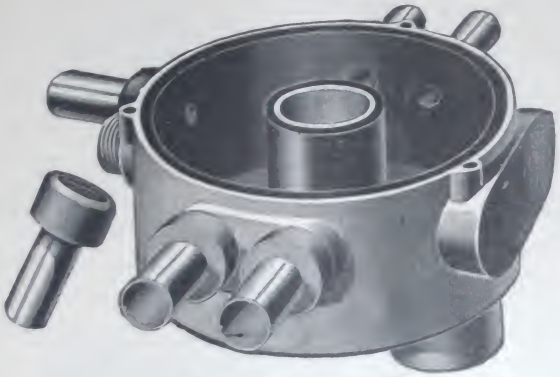
Price List.

No. 195
Combination Coupling

No. 205,	Combination	Coupling,	⅜-inch	Iron	Nipple	to	⅜-inch	Brass	Coupling			$0 10
" 206,	"	"	½	"	"	"	½	"	"			12
" 207,	"	"	¾	"	"	"	¾	"	"			14
" 208,	"	"	1	"	"	"	1	"	"			17
" 209,	"	"	1¼	"	"	"	1¼	"	"			21
" 210,	"	"	1½	"	"	"	1½	"	"			27

Combination System.—Iron and Brass Armored Conduit.

Single Tube Iron—Double Tube Brass.



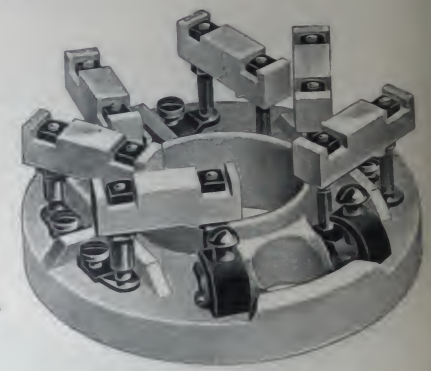
Iron Insulating Box No. 508.

Outside Dimensions.

Diameter, 5¼ inches; Depth, 2¼ inches.
Diameter Gas Outlet, 1⅛ inches.
Diameter Electric Outlet (inside), 1⅜ inches.

Porcelain Cut-out.

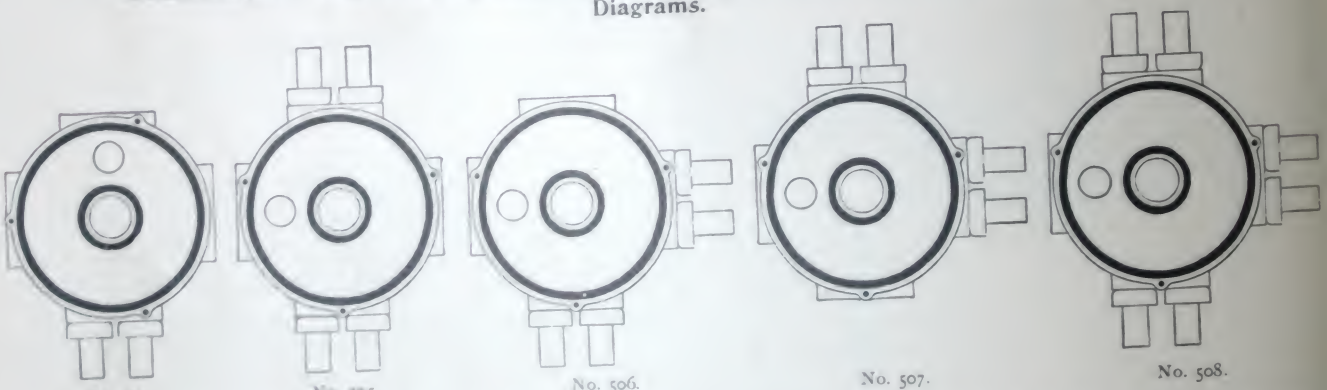
Diameter, 4⅜ inches; Height, with Adjustable Fuses, 1¾ inches.



Porcelain Cut-out No. 715.

Combination Gas and Electric Ceiling Outlet and Branch Circuit Boxes.

Diagrams.



No. 504. No. 505. No. 506. No. 507. No. 508.

The Box is of Iron, Insulated and designed to be placed at a chandelier outlet, and fed from the floor above by a single tube of Iron Armored Conduit ¾ of an inch inside diameter or less. Owing to the position and necessity of sinking the Box into the Terra Cotta ceiling, no threaded joint can be made, but an iron sleeve one inch in height is provided, into which the Conduit is inserted. The Center or Gas Outlet will admit the use of ¾-inch (inside diameter) gas pipe. The short Iron Nipples are threaded for ⅜-inch coupling, on to which can be screwed combination coupling for $\frac{5}{16}$ or ⅜-inch Brass Armored Conduit. For further description of this Box see page 33.

Porcelain Cut-out No. 715 is supplied with Binding Posts that will carry No. 4 B. & S. gauge wire. Terminals for outlet branches have been tested for 15 amperes.

☞ The Star Fixture Supports illustrated on pages 24 and 25 can be advantageously employed with this Box.

Price List.

No. 504, Iron Armored Box, 1 Main, 1 Electralier and 1 Branches	⅜" or ½"	$2 05
" 505, " " " 1 " 1 " " 4 "	⅜" or ½"	2 75
" 506, " " " 1 " 1 " " 4 "	⅜" or ½"	2 75
" 507, " " " 1 " 1 " " 4 "	⅜" or ½"	2 75
" 508, " " " 1 " 1 " " 6 "	⅜" or ½"	3 45

Porcelain Cut-out.

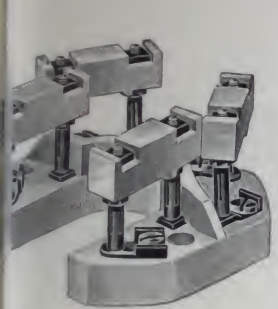
No. 715, As shown in cut, with six Fuse Holders		$2 05
" 716, Fitted with Binding Screws, no Fuse Holders		90
" 695, Fuse Holder complete, extra heavy Terminals, without Fuse Leads	each	20
" 696, Fuse Holder complete, regular Terminals, without Fuse Leads	"	10
" 700, Copper-tipped Fuses—3 or 6 amperes	"	05

For prices of extra parts of Fuse Holders see page 28.

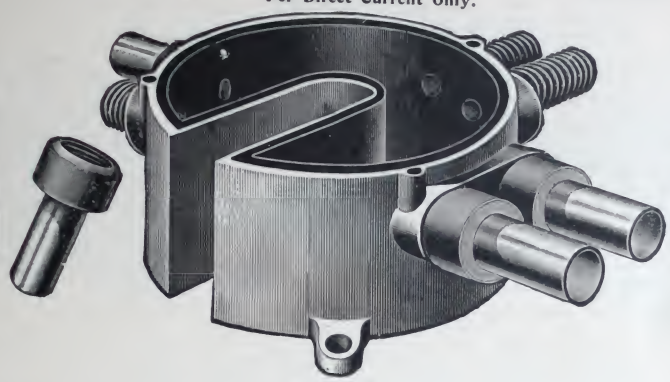
Combination System.—Iron and Brass Armored Conduit.

Double Tube Iron—Double Tube Brass.

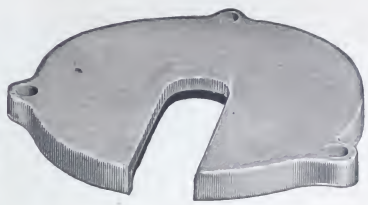
For Direct Current Only.



Cut-out No. 718.



No. 2920.



Cover No. 912.

Combination Gas and Electric Outlet Box and Cut-out.

This Box is designed for side outlets on walls or partitions. The diameter being small, a 4-inch Fixture Shell will cover it. Cover No. 912 admits of ready access to Box, and when in place, it effectually closes the outlet against moisture. Unless otherwise specified in orders, we supply Nipples for Mains $\frac{3}{8}$ of an inch, Branches $\frac{3}{8}$ of an inch. Nipples for $\frac{5}{16}$-inch Conduit to order only. If long iron Nipples are not to be used, see note, page 14.

Cut-out No. 718 will fuse two Branch Circuits. It is fitted with the adjustable Fuse Holders, or will be supplied with Binding Screws, so that the ordinary Copper-tipped Fuse may be employed.

Price List.

Iron Box and Cover.

No. 2920, As illustrated, with four $\frac{3}{8}$-inch Combination Nipples and two $\frac{3}{8}$-inch Iron Insulated Nipples $2 65

Dimensions: Diameter, $3\frac{5}{8}$ in.; Depth, $1\frac{7}{8}$ in.

No. 912, Plain Iron Cover, Insulating Lining . . 25

Porcelain Cut-out.

No. 718, Complete with four Adjustable Safety Fuses $1 65

" 719, Cut-out without Adjustable Fuses, but having Binding Screws for Copper-tipped Fuses 85

No. 984.

Switch Box for Cutter and other Flush Switches.

The Box, as illustrated, is designed for a 10 or 20-ampere Cutter or Newton Flush Switch. We also manufacture these Boxes for all makes of Flush Switches, either

Single Pole, Double Pole and Three or Four Wires.

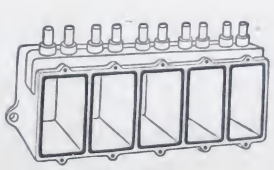
Where the installation is to be made before the partition walls are erected, we place the Outlets on top of Box, near the rear edge, to clear the front wall of the Terra Cotta Brick.

No. 984, Box with two $\frac{3}{8}$-inch Combination Nipples, $1 45

Outside Dimensions: Height, 4 inches; Width, $2\frac{1}{2}$ inches: Depth, $3\frac{1}{4}$ inches.

No. 987, Gang Switch Boxes. Prices on application.

We do not sell these switches.



No. 987.

Outlets are placed $\frac{5}{16}$ of an inch from rim for Brick or Terra Cotta work and $\frac{3}{4}$ of an inch for Lath and Plaster.

Combination System.—Iron and Brass Armored Conduit.

Single Tube Iron—Double Tube Brass,

For Direct or Alternating Currents.

No. 646.

No. 647.

Angle and Corner Insulating Boxes,

For Splicing or "Pulling-in" Conductors.

No. 648.

No. 646. Iron Insulated Box, with one ⅜-in. or ⅝-in. Iron and two ⅜-in. Combination Couplings fitted. $2 25

" 647, Iron Insulated Box, with one ⅜-in. or ⅝-in. Iron and two ⅜-in. Combination Couplings fitted. 2 25

" 648, Iron Insulated Box, with one ⅜-in. or ⅝-in. Iron and two ⅜-in. Combination Couplings fitted. 2 25

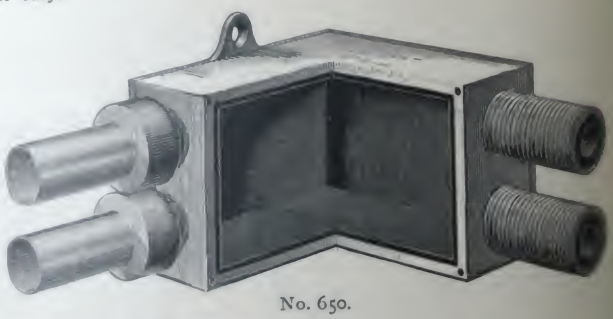
The above prices include plain iron covers and screws—fitted.

Unless otherwise specified in orders, we will supply Boxes with one ⅝-inch iron Nipple and two ⅜-inch Combination Couplings. If $\frac{5}{16}$-inch brass Conduit is to be used, please state so in ordering. For dimensions of these Boxes see page 35.

Double Tube Iron—Double Tube Brass,

For Direct Current Only.

No. 649.



No. 650.

Angle and Corner Insulating Boxes,

For Splicing or "Pulling-in" Conductors.

No. 649. Iron Insulated Box, with two ⅜-inch Iron and two ⅜-inch Combination Couplings fitted . $2 45

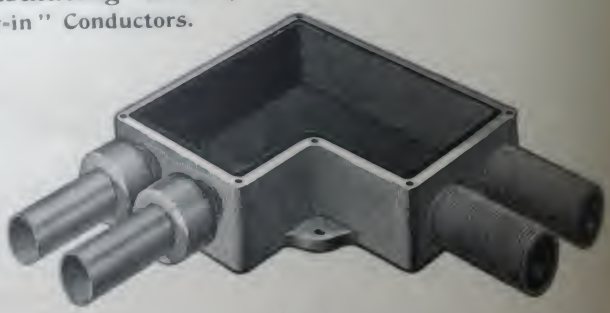
" 650. Iron Insulated Box, with two ⅜-inch Iron and two ⅜-inch Combination Couplings fitted . 2 45

" 651. Iron Insulated Box, with two ⅜-inch Iron and two ⅜-inch Combination Couplings fitted . 2 45

The above prices include plain iron covers and screws—fitted.

Unless otherwise specified in orders, we will supply Nipples for ⅜-inch Conduit. If $\frac{5}{16}$-inch brass Conduit is to be used please state so in ordering. For dimensions see page 35.

The above Boxes are made for Brick and Terra Cotta Work, Nipples being placed ⅛ inch from Rim of Box. If Nipples are not to be used, see note page 14.



No. 651.

Brass Armored Conduit

For Direct or Alternating Currents.

Price List.

5/16	inch	Inside	Diameter	.	.	.	per	100	feet	.	.	.	$4 95
3/8	"	"	"	.	.	.	"	"		.	.	.	5 68
1/2	"	"	"	.	.	.	"	"		.	.	.	6 88
5/8	"	"	"	.	.	.	"	"		.	.	.	7 90
3/4	"	"	"	.	.	.	"	"		.	.	.	9 28
1	"	"	"	.	.	.	"	"		.	.	.	12 22
1 1/4	"	"	"	.	.	.	"	"		.	.	.	14 95
1 1/2	"	"	"	.	.	.	"	"		.	.	.	25 25

Brass Armored Conduit is our Plain Conduit, with a brass armor or covering drawn upon . We furnish this Conduit for better protection against mechanical injury and the destructive action the alkalies of cement, where used under tile floors or in like exposed places. When polished will be found *unequaled for surface work* (see page 67) in finish and accessibility. It is also equently required in situations peculiarly liable to heat and fire from external sources.

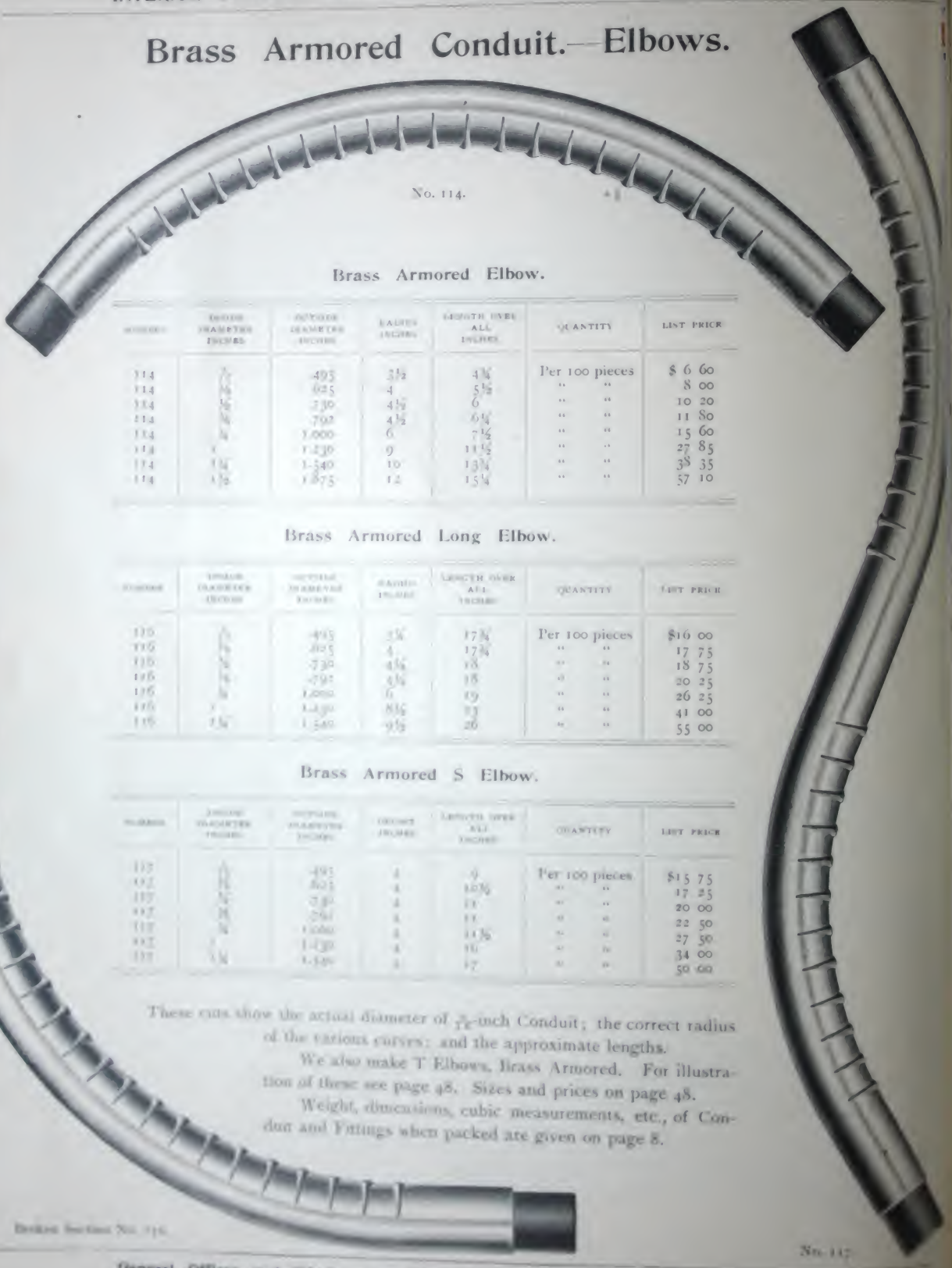
Brass Sheathed Junction Boxes and appliances to correspond are also provided, so that an ntire sheathed or armored conduit system may be installed if desired.

In the above price list for Brass Armored Conduit, we have added to the price of Plain onduit only the bare cost of the metal and the labor used in covering, including no charges for pense or profit. We have done this for the sole purpose of encouraging and extending the use Armored Conduit. In calculating the comparative cost, our customers are reminded to take into onsideration the fact that no allowance need be made on Armored Conduit for waste or breakage, hich fact keeps the cost very near to that of the Plain Conduit.

Its advantages are manifold and immediately apparent. It is FIRE and ALKALI proof nd practically indestructible.

Weight, dimensions, cubic measurements, etc., of Conduit and Fittings when packed are given on page 8.

Brass Armored Conduit.—Elbows.



No. 114.

Brass Armored Elbow.

NUMBER	INSIDE DIAMETER INCHES	OUTSIDE DIAMETER INCHES	RADIUS INCHES	LENGTH OVER ALL INCHES	QUANTITY	LIST PRICE
114	⅜	.495	3½	4¾	Per 100 pieces	$ 6 60
114	½	.625	4	5½	" "	8 00
114	⅝	.730	4½	6	" "	10 20
114	¾	.792	4½	6¼	" "	11 80
114	¾	1.000	6	7½	" "	15 60
114	1	1.230	9	11½	" "	27 85
114	1¼	1.540	10	13¾	" "	38 35
114	1½	1.875	12	15¼	" "	57 10

Brass Armored Long Elbow.

NUMBER	INSIDE DIAMETER INCHES	OUTSIDE DIAMETER INCHES	RADIUS INCHES	LENGTH OVER ALL INCHES	QUANTITY	LIST PRICE
116	⅜	.495	5¾	17¾	Per 100 pieces	$16 00
116	½	.605	4	17¾	" "	17 75
116	⅝	.730	4¼	18	" "	18 75
116	¾	.792	4¼	18	" "	20 25
116	¾	1.000	6	19	" "	26 25
116	1	1.230	8½	23	" "	41 00
116	1¼	1.540	9½	26	" "	55 00

Brass Armored S Elbow.

NUMBER	INSIDE DIAMETER INCHES	OUTSIDE DIAMETER INCHES	OFFSET INCHES	LENGTH OVER ALL INCHES	QUANTITY	LIST PRICE
117	⅜	.495	4	9	Per 100 pieces	$15 75
117	½	.605	4	10⅜	" "	17 25
117	⅝	.730	4	11	" "	20 00
117	¾	.792	4	11	" "	22 50
117	¾	1.000	4	11⅜	" "	27 50
117	1	1.230	4	15	" "	34 00
117	1¼	1.540	4	17	" "	50 00

These cuts show the actual diameter of ⅜-inch Conduit; the correct radius of the various curves; and the approximate lengths.

We also make T Elbows, Brass Armored. For illustration of these see page 48. Sizes and prices on page 48.

Weight, dimensions, cubic measurements, etc., of Conduit and Fittings when packed are given on page 8.

Reducing Sections No. 136.

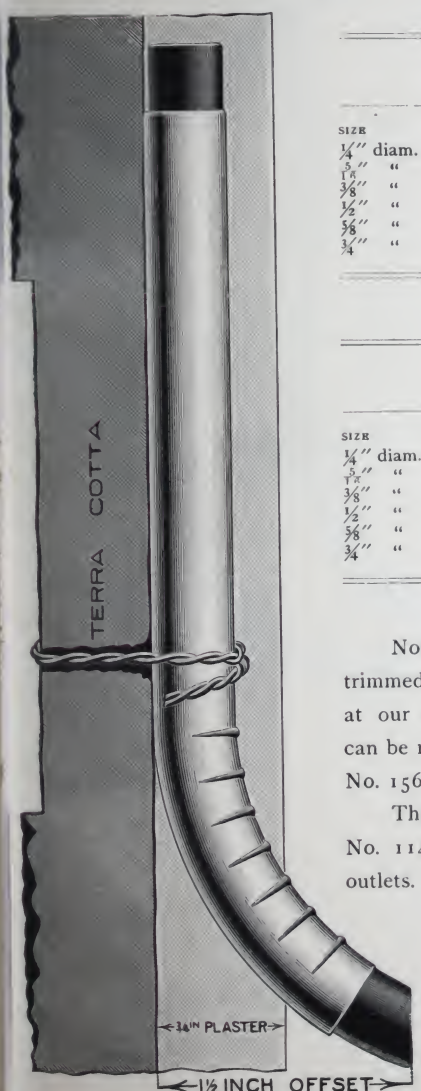
No. 117.

Brass Armored Conduit.—Elbows.

Terminal or Outlet Elbows.

For Brick or Terra Cotta Walls and Fire-proof Construction.

These Elbows are made with a Sharp Bend and are especially adapted for **Fixture Outlets.**



No. 118.

OUTLET ELBOWS
FOR BRICK AND TILE WORK

No. 118
BRASS ARMORED

SIZE	OFFSET	LENGTH		PRICE
¼″ diam.	1½″	5¾″	per 100	$10 30
5/16″ "	1½″	5¾″	" "	11 35
⅜″ "	1½″	7″	" "	12 40
½″ "	1¾″	8¼″	" "	12 60
⅝″ "	2″	9″	" "	13 70
¾″ "	2¼″	10½″	" "	15 30

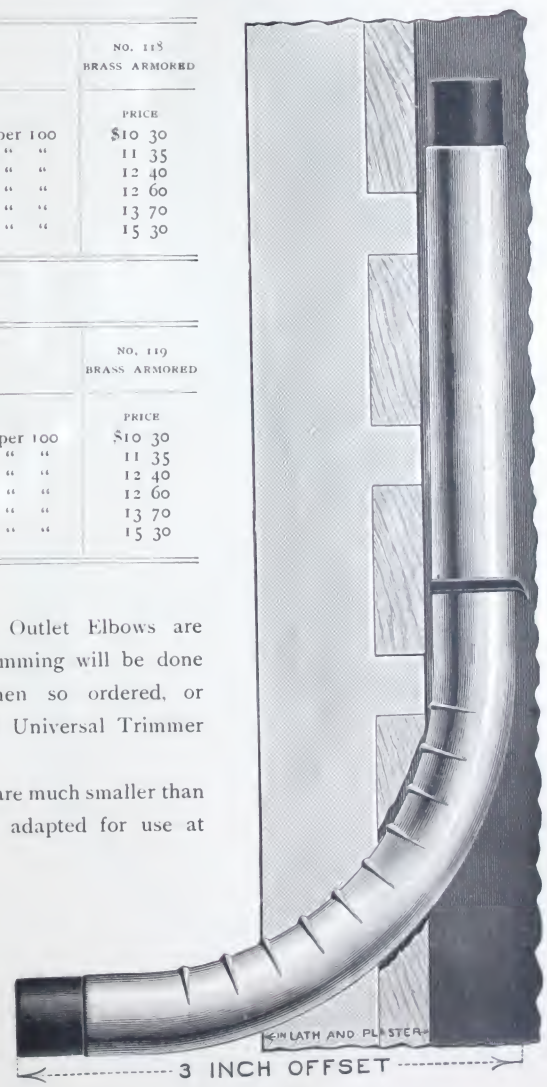
OUTLET ELBOWS
FOR LATH AND PLASTER

No. 119
BRASS ARMORED

SIZE	OFFSET	LENGTH		PRICE
¼″ diam.	3″	5¾″	per 100	$10 30
5/16″ "	3″	5¾″	" "	11 35
⅜″ "	3″	7″	" "	12 40
½″ "	3½″	8¼″	" "	12 60
⅝″ "	3½″	9″	" "	13 70
¾″ "	4¼″	10½″	" "	15 30

Nos. 118 and 119 Brass Armored Outlet Elbows are trimmed back ⅜ of an inch. This trimming will be done at our works without extra charge, when so ordered, or can be readily accomplished by the use of Universal Trimmer No. 156 while installing.

The radii of curves in these elbows are much smaller than No. 114, and they will be found better adapted for use at outlets.

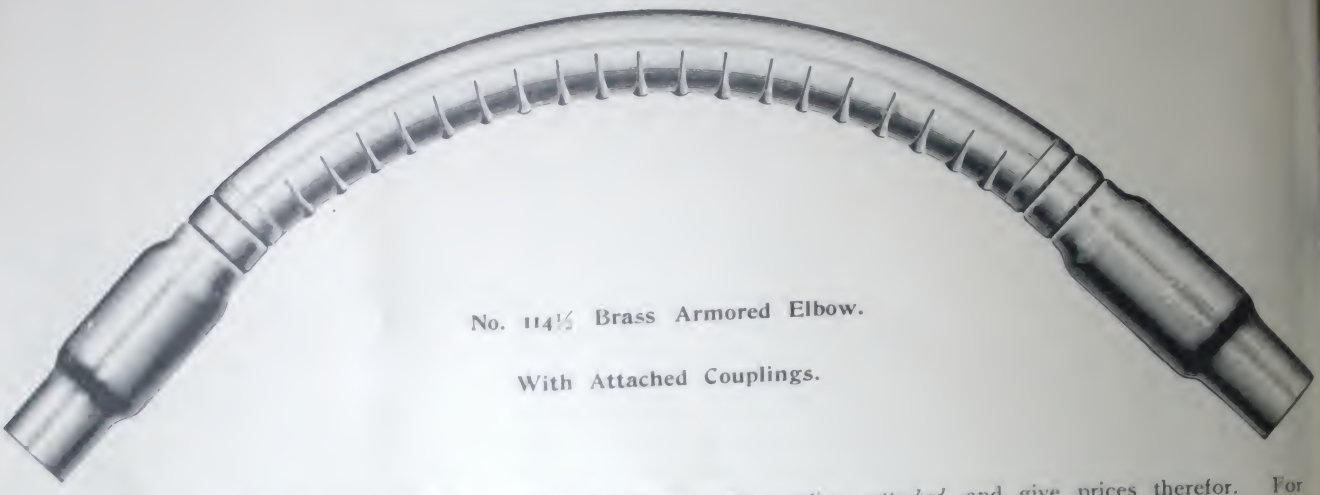


No. 119.

The above illustrations show 5/16-inch Outlet Elbows, actual size, in position.

Weight, dimensions, cubic measurements, etc., of Conduit and Fittings when packed are given on page 8.

Brass Armored Conduit.—Elbows, Tees, Etc.



No. 114½ Brass Armored Elbow.

With Attached Couplings.

On this page we illustrate our Brass Armored Elbows, *with couplings attached*, and give prices therefor. For convenience of reference we have given the fittings with couplings attached *half* numbers, corresponding with the like fittings without couplings appearing on preceding page.

As most elbows require two couplings, which can be better and more cheaply fitted in the factory than where the conduits are being put in, we have decided to supply our elbows in the future with the couplings attached, being convinced that our customers will prefer to order them in this way. In the lists below we give the prices for Elbows, Tees, etc., with couplings attached, as per our illustration.

Price List.

SHORT ELBOWS WITH ATTACHED COUPLINGS	PRICE NO. 114½ BRASS ARMORED
⅛ inch inside diameter, per 100	$18 70
¼ " " " "	21 50
⅜ " " " "	25 60
½ " " " "	30 00
⅝ " " " "	43 00
¾ " " " "	63 00
1 " " " "	

LONG ELBOWS WITH ATTACHED COUPLINGS	PRICE NO. 116½ BRASS ARMORED
⅛ inch inside diameter, per 100	$26 00
¼ " " " "	28 75
⅜ " " " "	31 75
½ " " " "	36 25
⅝ " " " "	49 25
¾ " " " "	71 00
1 " " " "	

S ELBOWS WITH ATTACHED COUPLINGS	PRICE NO. 117½ BRASS ARMORED
⅛ inch inside diameter, per 100	$25 75
¼ " " " "	28 25
⅜ " " " "	33 00
½ " " " "	38 50
⅝ " " " "	50 50
¾ " " " "	64 00
1 " " " "	

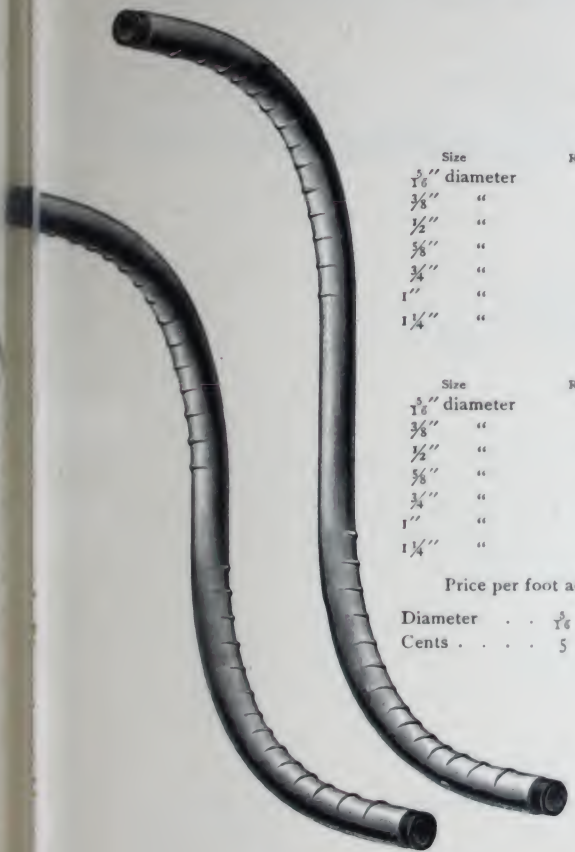
TEES WITH ATTACHED COUPLINGS	PRICE NO. 118½ BRASS ARMORED
Mains ⅜ inch, Branch ⅛ inch, per 100	$90 75
" ½ " " ⅜ " "	95 00
" ⅝ " " ½ " "	100 90
" ¾ " " ⅝ " "	114 00
" 1 " " ¾ " "	132 00
	167 00

For illustration of Brass Armored "Tees" or Double Elbows, see "Plain Conduit" page 53.

Weight, dimensions, cubic measurements, etc., of Conduit and Fittings when packed are given on page 8.

Brass Armored Conduit.

Special Elbows.



No. 511.

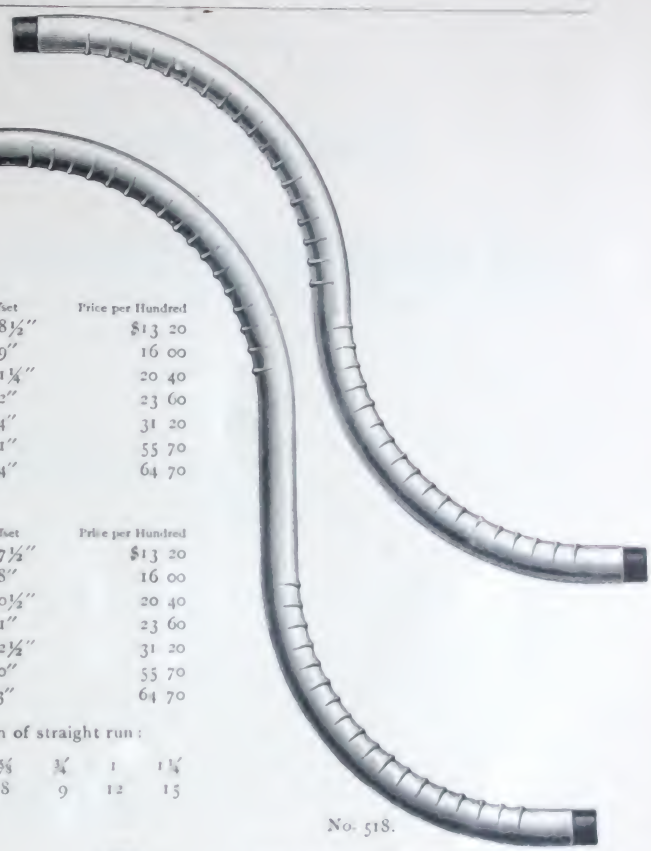
Size	Radius of Bend	Offset	Price per Hundred
5/16" diameter	3"	8½"	$13 20
3/8" "	3"	9"	16 00
1/2" "	4"	11¼"	20 40
5/8" "	4"	12"	23 60
3/4" "	5"	14"	31 20
1" "	7"	21"	55 70
1¼" "	9"	24"	64 70

No. 518.

Size	Radius of Bend	Offset	Price per Hundred
5/16" diameter	3"	7½"	$13 20
3/8" "	3"	8"	16 00
1/2" "	4"	10½"	20 40
5/8" "	4"	11"	23 60
3/4" "	5"	12½"	31 20
1" "	7"	20"	55 70
1¼" "	9"	23"	64 70

Price per foot additional for length of straight run:

Diameter	5/16	3/8	1/2	5/8	3/4	1	1¼
Cents	5	6	7	8	9	12	15

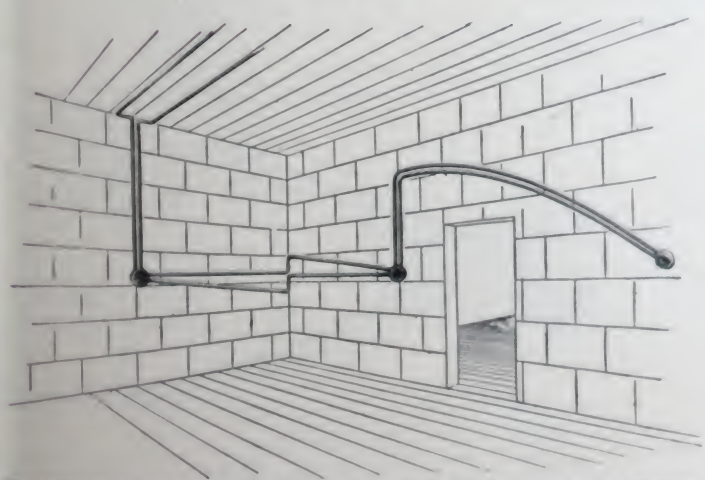


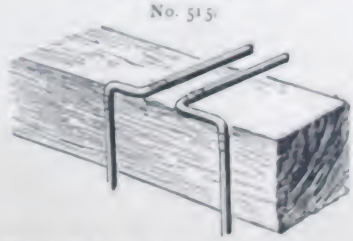
No. 518.

Return Elbow.

Size	Radius of Bend	Distance Between Sides	Price per Hundred
5/16" diam.	3"	6"	$13 20
3/8" "	4"	8"	16 00
1/2" "	4½"	9"	20 40
5/8" "	5"	10"	23 60
3/4" "	6"	12"	31 20
1" "	7"	18"	55 70
1¼" "	9"	22"	76 70

No. 515.

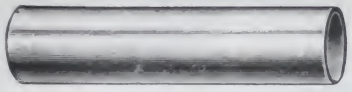




The above cuts illustrate the application of Corner Elbow, No. 511, Brass Armored.

Weight, dimensions, cubic measurements, etc., of Conduit and Fittings when packed are given on page 8.

Brass Armored Conduit.—Couplings, Tools, Etc.



No. 103½.—Seamless Brass.

No. 103.—Cross Section—Before using Coupling Tool.

No. 103½.—After the use of Coupling Tool.

No. 103.—After the use of Coupling Tool.

Plain Coupling for Brass Armored Conduit.

SIZE	PER HUNDRED	PRICE
5/16	Seamless Brass, 2⅝ inches long	$2 00
3/8	" " " " "	2 00
1/2	" " " " "	2 25
5/8	" " " " "	2 35
3/4	" " 2¾ " "	3 25
1	" " 3¼ " "	4 45
1¼	" " 3¾ " "	7 35
1½	" " 3¾ " "	12 00

These Couplings are not provided with an Insulating Bushing, but are made *seamless*. A tight joint cannot be made by crimping a Coupling having a seam.

Insulating Coupling for Brass Armored Conduit.

SIZE	PER HUNDRED	PRICE
5/16	Seamless Brass	$5 00
3/8	" "	5 50
1/2	" "	6 50
5/8	" "	8 00
3/4	" "	11 50
1	" "	15 00
1¼	" "	30 00

These Couplings are provided with an inner sleeve or bushing of insulating material, and are applied in the same manner as the Standard Couplings, No. 103½, and with the same coupling tool.

Sizes given with above Couplings are those of the inside diameter of the conduit tubes for which they are intended.

Weight, dimensions, cubic measurements, etc., of Conduit and Fittings when packed are given on page 8.

Sheet Brass Clips for Conduits.

SIZE		PRICE
¼-inch	per gross	$0 50
5/16 "	"	50
3/8 "	"	65
½ "	"	80

No. 125.

SIZE		PRICE
⅝-inch	per gross	$0 90
¾ "	"	1 00
1 "	"	1 40
1¼ "	"	2 00

Twisted Wire Clips for Conduits.

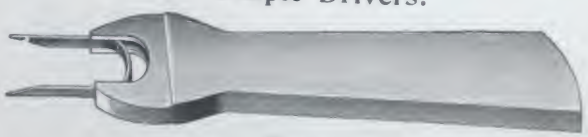
No. 129.

		PRICE
Size A, 4 inches long, for tubes up to ⅝ inch inclusive	per thousand	$4 50
" B, 7 " " " " 1 " "	"	6 15

We recommend for use with these Wire Clips, Flat-head Nails which we will furnish at the following *net* prices:

½-inch . . . per pound 8c. 1¼-inch . . . per pound 7c.

Staple Drivers.



No. 140.

SIZE	PRICE	SIZE	PRICE
¼-inch	$0 10 each net	⅝-inch	$0 16 each net
5/16 "	11 "	¾ "	18 "
3/8 "	12 "	1 "	20 "
½ "	14 "	1¼ "	24 "

Coupling Tools.

No. 152.

SIZE	PRICE	SIZE	PRICE
¼-inch	$0 90 net	⅝-inch	$1 25 net
5/16 "	90 "	¾ "	1 50 "
3/8 "	1 00 "	1 "	1 75 "
½ "	1 20 "	1¼ "	2 15 "

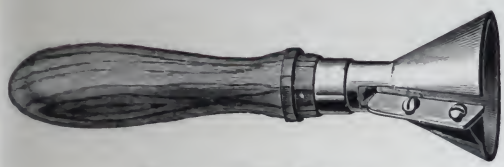
Miscellaneous.

		PRICE
Staples, all sizes	per pound	$0 10 net
Compound for making joints (specially prepared)	"	20 "
Powdered Soapstone	"	4 "
Fishing Wire	per foot	1 "

Prices Subject to Discount.

Brass Armored Conduit.—Finishing and Fitting Tools.

Reamers.



No. 153.—Outside Reamer.

No. 154.—Inside Reamer.

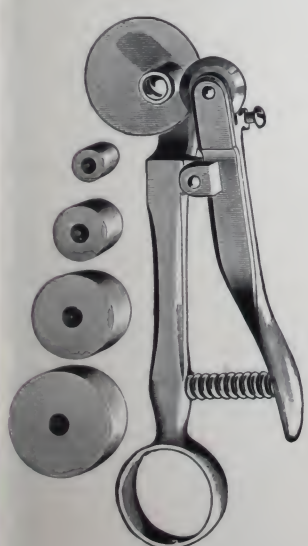
No. 157.—Combination Reamer.

In our Wiring Specifications, we have called particular attention to the importance of making perfect air and water-tight joints, and have issued printed directions as to the proper application of our Standard Coupling and Tools.

To facilitate the abutting of the conduit squarely in the center of the coupling, and to insure that no obstruction is offered to the drawing in of the conductors; we provide and advise the use of the special tools illustrated above.

The Outside Reamer helps to quickly enter the tubes and elbows into the couplings, and the Inside Reamer takes off rough edges and insures a smooth interior at the abutting ends within the coupling.

The above tools are made of Soft Iron with adjustable Steel Knives and neatly turned Wooden Handles, and are adapted to all sizes of tube, up to 1½-inch.



No. 156.
Trimmer for Brass Armored Conduit Tube.

Trimmer for Brass Armored Conduit.

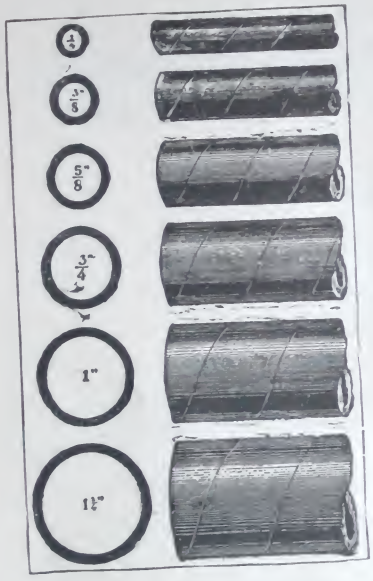
A water-tight and well insulated joint is necessary. To accomplish this, when the Brass Armored Conduit is employed, the brass armor of each abutting piece should be removed for about one-half inch back from the ends. For this purpose we supply our No. 156 Trimmer, which, when adjusted properly, will cut through the brass without injuring the plain conduit. If No. 103 Insulating Coupling be now applied, there will be a double thickness of insulation, one inch in length at the joint. In using the No. 103½ Coupling, the brass armor need not be trimmed back so far. The crimping tool should be used after the Coupling is in its proper position, to secure a thoroughly waterproof and insulated joint.

The Trimmer is made of malleable iron, having a revolving steel knife or cutter, and five adjustable bushings, which can be readily adjusted to the various sizes of conduit, so that only the one tool is necessary. The adjusting screw should be set when changing from one thickness of conduit to another, so that the knife will not cut too deeply. The trimmer does its work effectually and quickly.

Price List.

No. 153,	Outside Reamer	$1 00
" 154,	Inside Reamer	1 00
" 157,	Combination Reamer	1 90
" 156,	Universal Trimmer for Brass Armored Conduit Tube for all size Conduits	4 25

Plain Conduit.



Price List.

SIZE	PRICE
¼ inch inside diameter, per 100 feet	$2 25
5/16 " " " " " "	2 25
⅜ " " " " " "	2 75
½ " " " " " "	3 25
⅝ " " " " " "	3 75
¾ " " " " " "	4 25
1 " " " " " "	5 25
1¼ " " " " " "	8 00
1½ " " " " " "	12 50
2 " " " " " "	20 00
2½ " " " " " "	32 00

¼-inch size in 6-foot lengths. All other sizes in 10-foot lengths.

Our Plain Conduit has been so greatly improved, both in the quality of material employed and in the process of manufacture, as to render it entirely acceptable for all work where destructive alkalies or open air fire channels do not demand the metal sheathing protection.

Since the introduction of armored conduits there has been an increased demand for the plain conduit in making complete and accessible conduit installations for electric bells, telephone, telegraph, teleseum, district messenger and other systems employing low tension currents.

All the manifold appliances, such as couplings, elbows, junction boxes, etc., have been reduced to a common interchangeable standard, thus eliminating the chance of dead stock.

All tubes and elbows are cut squarely, thoroughly reamed and tested for obstructive matter by passing a test line through them, thus reducing labor of installation and waste material to a minimum.

Our steadily increasing output has enabled us to bring the price of this system within the compass of factory and other low grade work, where cheap methods have hitherto been in vogue, thus rendering available to all classes and grades of electric lighting the factors of safety, reliability and neatness.

The weight, cubic measurement, etc., of conduit and fittings are given on page 8.

Plain Conduit.—Elbows, Tees, Etc.

SPECIAL NOTICE.

March 18th, 1896.

Since this catalogue went to press we have discontinued the manufacture of half-inch plain conduit, fittings and appliances.

	No. 110 Standard
. . . . .	$5 50
. . . . .	5 50
. . . . .	5 60
. . . . .	6 75
. . . . .	7 50
. . . . .	10 00
. . . . .	13 00
. . . . .	25 00
. . . . .	47 00

Larger sizes furnished to order.

No. 112, Plain Long Elbow.

LONG ELBOWS	No. 112 Plain
¼ inch inside diameter, per 100 . . .	$15 50
⅜ " " " " . . .	16 00
½ " " " " . . .	17 75
⅝ " " " " . . .	18 75
¾ " " " " . . .	19 75
1 " " " " . . .	21 75
1¼ " " " " . . .	25 00
	32 50

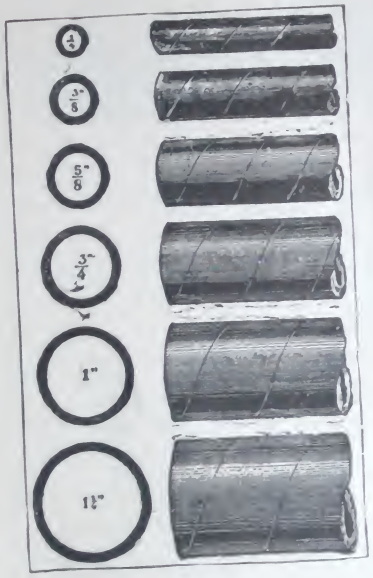
No. 113, Plain S Elbow.

S ELBOWS	No. 113 Plain
¼ inch inside diameter, per 100 . . .	$15 25
⅜ " " " " . . .	15 75
½ " " " " . . .	17 25
⅝ " " " " . . .	20 00
¾ " " " " . . .	22 50
1 " " " " . . .	27 50
1¼ " " " " . . .	34 00
	50 00

No. 111, Plain T or Double Elbow.

T OR DOUBLE ELBOW	No. 111 Plain
Mains ⅜ inch, Branch ¼ inch, per 100	$16 25
" ⅜ " " ⅜ " "	16 50
" ½ " " ⅜ " "	17 75
" ⅝ " " ⅜ " "	18 75
" ⅝ " " ½ " "	20 25
" ¾ " " ⅝ " "	25 00
" 1 " " ¾ " "	35 00

The weight, cubic measurement, etc., of conduit and fittings are given on page 8.



2 " " " " " " " " 3-

2½ " " " " " " " " 4-

¼-inch size in 6-foot lengths. All other sizes in 10-foot lengths.

Our Plain Conduit has been so greatly improved, both in the quality of material employed and in the process of manufacture, as to render it entirely acceptable for all work where destructive alkalies or open air fire channels do not demand the metal sheathing protection.

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The weight, cubic measurement, etc., of conduit and fittings are given on page 8.

Plain Conduit.—Elbows, Tees, Etc.

No. 110, Standard Short Elbow.

STANDARD SHORT ELBOWS	NO. 110 STANDARD
¼ inch inside diameter, No. 110, per 100	$5 50
5/16 " " " " "	5 50
⅜ " " " " "	5 60
½ " " " " "	6 75
⅝ " " " " "	7 50
¾ " " " " "	10 00
1 " " " " "	13 00
1¼ " " " " "	25 00
1½ " " " " "	47 00

Larger sizes furnished to order.

No. 112, Plain Long Elbow.

LONG ELBOWS	NO. 112 PLAIN
¼ inch inside diameter, per 100	$15 50
5/16 " " " "	16 00
⅜ " " " "	17 75
½ " " " "	18 75
⅝ " " " "	19 75
¾ " " " "	21 75
1 " " " "	25 00
1¼ " " " "	32 50

No. 113, Plain S Elbow.

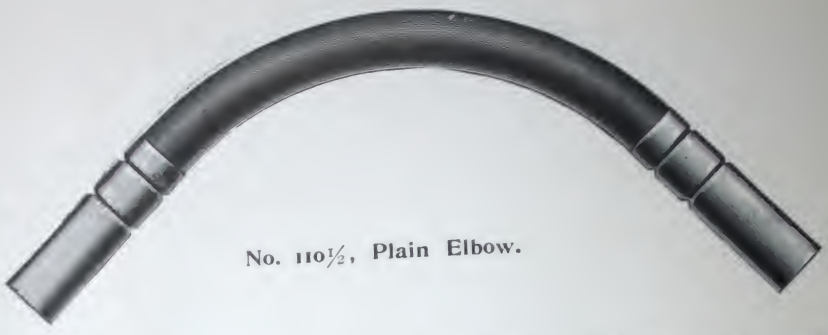
S ELBOWS	NO. 113 PLAIN
¼ inch inside diameter, per 100	$15 25
5/16 " " " "	15 75
⅜ " " " "	17 25
½ " " " "	20 00
⅝ " " " "	22 50
¾ " " " "	27 50
1 " " " "	34 00
1¼ " " " "	50 00

No. 111, Plain T or Double Elbow.

T OR DOUBLE ELBOW	NO. 111 PLAIN
Mains 5/16 inch, Branch ¼ inch, per 100	$16 25
" ⅜ " " 5/16 " "	16 50
" ½ " " ⅜ " "	17 75
" ⅝ " " ⅜ " "	18 75
" ⅝ " " ½ " "	20 25
" ¾ " " ⅝ " "	25 00
" 1 " " ¾ " "	35 00

The weight, cubic measurement, etc., of conduit and fittings are given on page 8.

Plain Conduit.—Elbows, Tees, Etc.



No. 110½, Plain Elbow.

On this page we illustrate our Plain Unarmored Elbows, *with couplings attached*, and give prices therefor. For convenience of reference we have given the fittings with couplings attached, *half* numbers corresponding with the like fittings without couplings appearing on preceding page.

As most elbows require two couplings, which can be better and more cheaply fitted in the factory than where the conduits are being put in, we have decided to supply our elbows in the future with the couplings attached, being convinced that all our customers will prefer to order them in this way. In the lists below we give the prices for Elbows, Tees, etc., with couplings attached, as per our illustrations.

SHORT ELBOWS WITH ATTACHED COUPLINGS	NO. 110½ PLAIN
¼ inch inside diameter, per 100	$13 30
5/16 " " " "	13 30
⅜ " " " "	13 50
½ " " " "	16 00
⅝ " " " "	18 50
¾ " " " "	22 00
1 " " " "	30 00

S ELBOWS WITH ATTACHED COUPLINGS	NO. 111½ PLAIN
¼ inch inside diameter, per 100	$23 00
5/16 " " " "	23 60
⅜ " " " "	25 50
½ " " " "	29 00
⅝ " " " "	31 00
¾ " " " "	39 75
1 " " " "	50 00

LONG ELBOWS WITH ATTACHED COUPLINGS	NO. 112½ PLAIN
¼ inch inside diameter, per 100	$23 50
5/16 " " " "	24 00
⅜ " " " "	25 75
½ " " " "	28 00
⅝ " " " "	30 00
¾ " " " "	34 00
1 " " " "	41 00

TEES WITH ATTACHED COUPLINGS	NO. 113½ PLAIN
Mains 5/16 inch, Branch ¼ inch, per 100	$26 25
" ⅜ " " 5/16 " "	27 90
" ½ " " ⅜ " "	28 75
" ⅝ " " ⅜ " "	29 50
" ⅝ " " ½ " "	32 25
" ¾ " " ⅝ " "	34 50
" 1 " " ¾ " "	41 00

The weight, cubic measurement, etc., of conduit and fittings are given on page 8.

Brass Armored Conduit.—Boxes for Double Tube, Two and Three Wire Systems.

These Boxes are made of the same material as the Plain Conduit, and are covered with heavy sheet brass, the outlets being soldered on from the inside. They are water-proof and afford protection against mechanical injury, and the destructive chemical action of cement. They can also be used in situations peculiarly liable to heat and fire from external sources.

Main Line Junction Boxes.

Two Wire System.

Nos. 901, 902.

No. 901, Two Circuit Main Line, for Brick or Surface Work . . . $5 00
" 902, " " " " " " Lath and Plaster " . . . 5 15

Three Wire System.

Nos. 921, 922.

No. 921, Two Circuit Main Line, for Brick or Surface Work . . . $5 60
" 922, " " " " " " Lath and Plaster " . . . 5 75

Main Terminal Junction Boxes.

Two Wire System.

Nos. 903, 904.

No. 903, Two Circuit Main Terminal, for Brick or Surface Work . $4 35
" 904, " " " " " " Lath and Plaster " . 4 50

Three Wire System.

Nos. 923, 924.

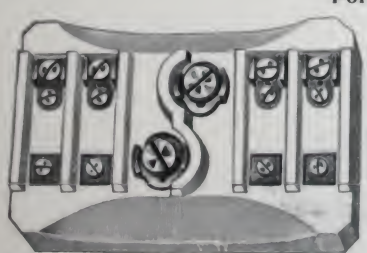
No. 923, Two Circuit Main Terminal, for Brick or Surface Work . $4 75
" 924, " " " " " " Lath and Plaster " . 4 90

For the dimensions of these Boxes see page 57. Covers for these Boxes will be found on page 60.

Unless otherwise specified, we furnish these Boxes for 1-inch mains and $\frac{3}{8}$-inch branch outlets.

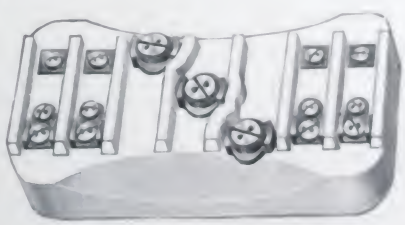
Outlets are placed $\frac{5}{16}$ of an inch from rim of Box for Brick or Terra Cotta, and $\frac{3}{4}$ of an inch for Lath or Plaster.

Porcelain Cut-outs for above.



No. 128.

No. 128, Two Wire, Two Circuit Porcelain Cut-out $1 90
For Boxes Nos. 901, 902, 903 and 904.



No. 122.

No. 122, Three Wire, Two Circuit Cut-out $2 10
For Boxes Nos. 921, 922, 923 and 924.

When ordering any of the above Cut-outs, state what size main conductor will be used, in order that we may furnish binding screws accordingly. Above prices of Cut-outs do not include Safety Leads.

Brass Armored Conduit.—Boxes for Double Tube, Two and Three Wire Systems.

Main Line and Terminal Junction Boxes.

Two Wire System.

Nos. 905, 906.

No. 905, Four Circuit Main Line for Brick or Surface Work . $6 00 No. 906, Four Circuit Main Line, for Lath and Plaster Work . $6 25

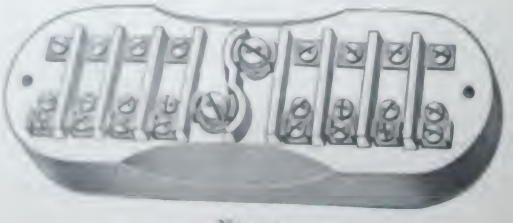
Two Wire System.

Nos. 907, 908.

No. 907. Four Circuit Main Terminal, for Brick or Surface Work $5 35 No. 908, Four Circuit Main Terminal, for Lath and Plaster Work $5 60

Covers for these Boxes are described and illustrated on page 60. For the dimensions of Boxes, see page 57.
Unless otherwise specified, we furnish these Boxes for 1-inch mains and ½-inch branch outlets.
Outlets are placed $\frac{5}{8}$ of an inch from top of Box for Brick and Terra Cotta Work, and ¾ of an inch for Lath or Plaster.

Porcelain Cut-out for above.



No. 121.

No. 121. Two Wire Four Circuit Cut-out $2 70
For Boxes Nos. 905, 906, 907 and 908.

When ordering the above Cut-out, state what size main conductors will be used, in order that we may furnish binding screws or binding posts No. 1003. Above price of Cut-out does not include Safety Leads.

Brass Armored Conduit.—Boxes for Double Tube, Three Wire System.

Main Line and Terminal Junction Boxes.

No. 925, 926.

No. 925, Four Circuit Main Line, for Brick, Terra Cotta or Surface Work ... $7 00
" 926, " " " " " " Lath and Plaster Work ... 7 75

No. 927, 928.

No. 927, Four Circuit Main Terminal, for Terra Cotta, Brick or Surface Work ... $6 00
" 928, " " " " " " Lath and Plaster Work ... 6 75

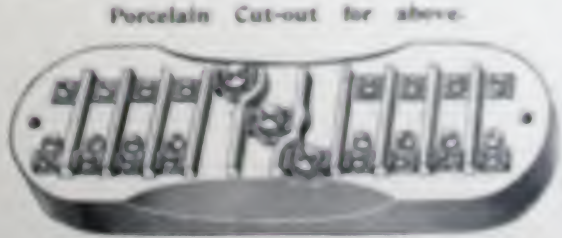
Covers for these Boxes are described and illustrated on page 60.

Outside Dimensions for the Brass Armored Junction Boxes.

No. 921,	Length,	8¼	inches	Width,	1⅝	inches	Depth,	1½	inches	No. 922,	Length,	8¼	inches	Width,	1⅝	inches	Depth, 1½ inches
" 923,	"	8¼	"	"	1⅝	"	"	1½	"	" 924,	"	8¼	"	"	1⅝	"	" 1½ "
" 925,	"	10	"	"	1⅝	"	"	1¾	"	" 926,	"	10	"	"	1⅝	"	" 1¾ "
" 927,	"	12	"	"	1⅝	"	"	1⅞	"	" 928,	"	12	"	"	1⅝	"	" 1⅞ "

Unless otherwise specified in orders, we furnish above Boxes for ¾-inch Main and ½-inch Branch Conduits.
Junction Boxes for Brick or Terra Cotta Work have the upper rim of holes parallel and ⅛ of an inch from rim of box.
" " " Lath and Plaster " " " " ⅜ " " "

Porcelain Cut-out for above.



No. 115.

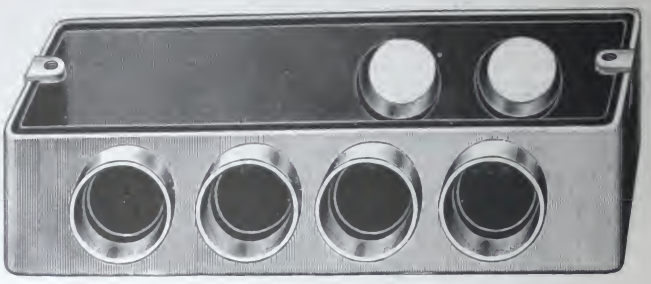
No. 115, Three Wire, Four Circuit Porcelain Cut-out, for Boxes Nos. 925, 926, 927 and 928, price $1 50.
When ordering the above Cut-out, state what size Main Conduits will be used, to order that we may furnish Binding Screws or Binding Posts Nos. 1009. Above prices of Cut-outs do not include Safety Leads.

Brass Armored Conduit Boxes.—Double Tube for Two and Three Wire Systems.

Feeder Terminal Junction Boxes.

Diagrams of Two Wire System.

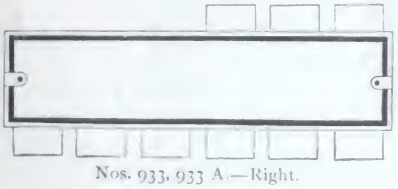
Nos. 931, 931 A.—Left.



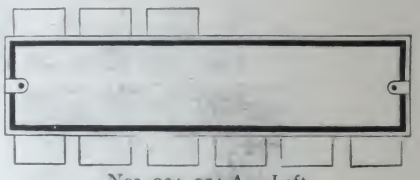
No. 932.

Nos. 932, 932 A.—Right.

Diagrams of Three Wire System.



Nos. 933, 933 A.—Right.



Nos. 934, 934 A.—Left.

Prices.

Two Wire System.

No. 931, Left Hand, for Brick or Surface work	$4 50
" 932, Right " " " " " "	4 50
" 931 A, Left Hand, for Lath and Plaster work	4 65
" 932 A, Right " " " " " "	4 65

Three Wire System.

No. 933, Right Hand, for Brick or Surface work	$5 00
" 934, Left " " " " " "	5 00
" 933 A, Right Hand, for Lath and Plaster work	5 25
" 934 A, Left " " " " " "	5 25

Outside Dimensions of above Boxes.

No. 931,	Length 8⅝ in.	Width 3¾ in.	Depth 2¼ in.
" 932,	" 8⅝ "	" 3¾ "	" 2¼ "
" 931 A,	" 8⅝ "	" 3¾ "	" 3 "
" 932 A,	" 8⅝ "	" 3¾ "	" 3 "

No. 933,	Length 12 in.	Width 3¾ in.	Depth 2¼ in.
" 934,	" 12 "	" 3¾ "	" 2¼ "
" 933 A,	" 12 "	" 3¾ "	" 3 "
" 934 A,	" 12 "	" 3¾ "	" 3 "

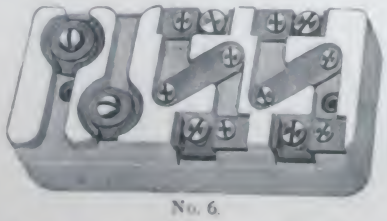
Unless otherwise specified in orders, we furnish above boxes for 1-inch Main and ¾-inch Distributors.
Junction Boxes for Brick or Terra Cotta Work have the upper rim of holes parallel and $\frac{5}{16}$ of an inch from rim of box.
" " " Lath and Plaster " " " " " " ¾ " " "
Covers for these Boxes are described and illustrated on page 60.

Porcelain Cut-outs for above.

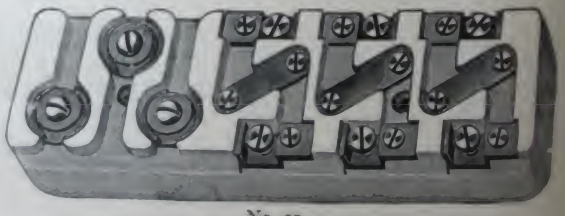
Dimensions.

No. 6, Length 7 inches; Width 3⅛ inches; Thickness 1⅜ inches.

No. 27, Length 9¾ inches; Width 3⅛ inches; Thickness 1⅜ inches.



No. 6.



No. 27.

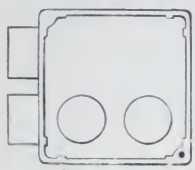
No. 6, Two Wire, Feeder Terminal Porcelain Cut-out, for use with Junction Boxes Nos. 931, 932, 931 A and 932 A	$3 50
" 27, Three " " " " " " " " " 933, 934, 933 A and 934 A	4 75

Brass Armored Conduit Boxes.—Double Tube for Two and Three Wire Systems.

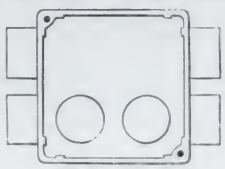
Feeder Junction Boxes.

No. 945.

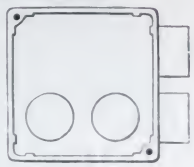
Two Wire System.—Diagrams of Outlets.



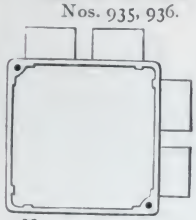
Nos. 935, 936.



Nos. 937, 938.

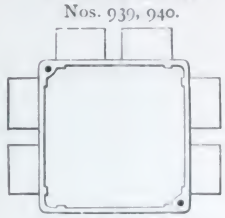


Nos. 939, 940.



Nos. 941, 942.

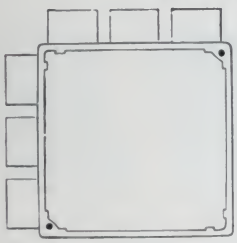
Nos. 943, 944.



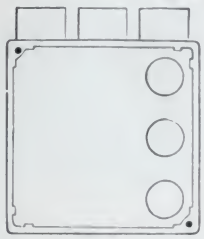
Nos. 945, 946.

Three Wire System.—Diagrams of Outlets.

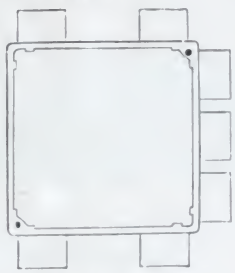
Nos 955, 974.



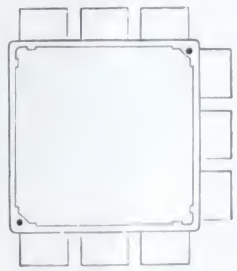
Nos. 953, 972.



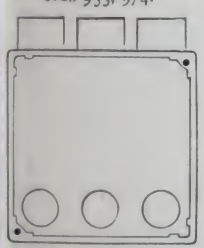
Nos. 951, 952.



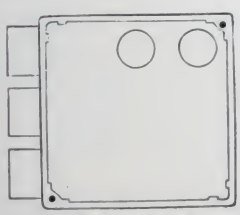
Nos. 969, 971.



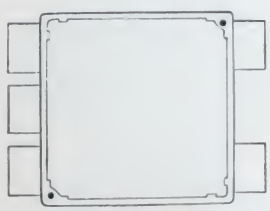
Nos. 957, 958.



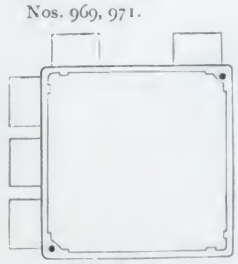
Nos. 949, 950.



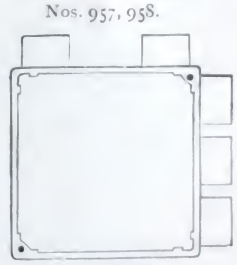
Nos. 947, 948.



Nos. 963, 964.



Nos. 959, 961.



Nos. 965, 967.

Prices and Dimensions for above Boxes.

Two Wire System.

No. 935,	For Brick or Terra Cotta Work		$4 85
" 936,	" Lath and Plaster	"	5 00
" 937,	" Brick or Terra Cotta	"	5 60
" 938,	" Lath and Plaster	"	5 75
" 939,	" Brick or Terra Cotta	"	4 85
" 940,	" Lath and Plaster	"	5 00
" 941,	" Brick or Terra Cotta	"	4 85
" 942,	" Lath and Plaster	"	5 00
" 943,	" Brick or Terra Cotta	"	4 85
" 944,	" Lath and Plaster	"	5 00
" 945,	" Brick or Terra Cotta	"	5 60
" 946,	" Lath and Plaster	"	5 75

Outside Dimensions.

For Brick or Terra Cotta Work: Length, 6½ inches; Width, 6½ inches; Height, 2¼ inches.

For Lath and Plaster Work: Length, 6½ inches; Width, 6½ inches; Height, 3 inches.

Covers for these Boxes are described and illustrated on page 60.

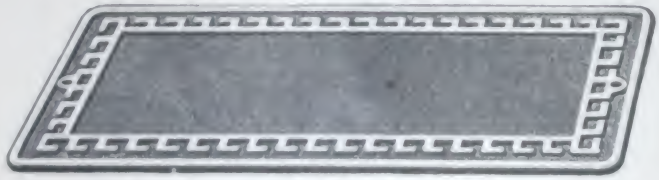
Unless otherwise specified, Feeder Boxes are supplied for 1-inch Conduits.

Three Wire System.

No. 947,	For Brick or Terra Cotta Work		$5 25
" 948,	" Lath and Plaster	"	5 40
" 949,	" Brick or Terra Cotta	"	5 60
" 950,	" Lath and Plaster	"	5 75
" 951,	" Brick or Terra Cotta	"	5 60
" 952,	" Lath and Plaster	"	5 75
" 953,	" Brick or Terra Cotta	"	5 60
" 972,	" Lath and Plaster	"	5 75
" 955,	" Brick or Terra Cotta	"	5 60
" 974,	" Lath and Plaster	"	5 75
" 957,	" Brick or Terra Cotta	"	6 75
" 958,	" Lath and Plaster	"	6 90
" 969,	" Brick or Terra Cotta	"	6 00
" 971,	" Lath and Plaster	"	6 15
" 963,	" Brick or Terra Cotta	"	5 25
" 964,	" Lath and Plaster	"	5 40
" 959,	" Brick or Terra Cotta	"	5 25
" 961,	" Lath and Plaster	"	5 40
" 965,	" Brick or Terra Cotta	"	5 25
" 967,	" Lath and Plaster	"	5 40

Brass Armored Conduit.—Covers for Boxes.

Design No. 2067.



Design No. 2062.

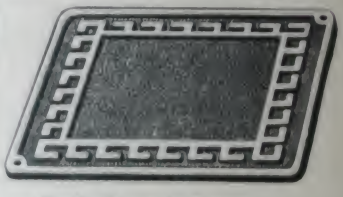
Covers for Junction, Feeder and Splicing Boxes. Price List.

DIMENSIONS OF BOXES INSIDE	FINISH	NO. 2062	NO. 2064	NO. 2067
6 x 3⅜	Bronzed Polished	$0 65	$0 65	$0 65
	Nickeled "	55	60	60
	Galvanized	53	20	..
	Plain Iron	40	..	40
6½ x 6½	Bronzed Polished	1 00	95	1 00
	Nickeled "	85	85	1 00
	Galvanized	85	25	..
	Plain Iron	70	..	65
8¼ x 3¾	Bronzed Polished	85	75	80
	Nickeled "	70	70	75
	Galvanized	75	25	..
	Plain Iron	55	..	60
11¾ x 5⅜	Bronzed Polished	1 00	1 00	1 00
	Nickeled "	85	90	1 00
	Galvanized	85	25	..
	Plain Iron	60	..	65

Covers for all Boxes have an Insulating Lining.
For further description of these Covers see page 27.

Design No. 2064.

Design No. 2064 Square.



Design No. 2062 Square.

Metal Covers for Branch and Outlet Boxes.

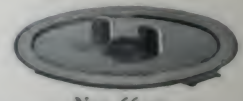
Nos. 61, 64.
Fancy Cover, Regular.

Nos. 599, 600.
Fancy Cover, with Nipple for Lamp Sockets.

Nos. 597, 598.
Fancy Cover, with Rubber Bushing.

Nos. 63, 70.
Plain Cover, Regular.

Nos. 835, 838.
Fancy Cover, with 2¼-inch Holder.



Nos. 66, 71.
Plain Cover, with Rubber Bushing.

Price List.

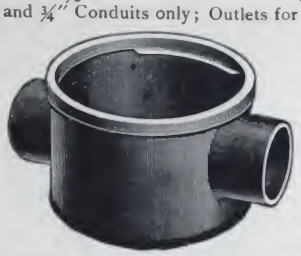
NO.	DESCRIPTION	SOLID BRASS	FOUNDED BRASS	IRON
61	2¼-inch Diameter Fancy Cover, Regular	$0 20	$0 25	
63	2¼ " " " "	22	27	
599	2¼ " " " " With ½-inch Nozzle	25	30	
597	2¼ " " " " " Rubber Bushing	27	32	
62	2¼ " " " "	25	30	
64	2¼ " " Plain " Regular	27	32	
835	2¼ " " Fancy " With 2¼-inch Shade Holder	10	15	$0 06
838	2¼ " " " " "	12	17	07
66	2¼ " " Plain " " Rubber Bushing	35	40	
71	2¼ " " " " "	37	42	
	2¼ " " " "	15	20	12
	2¼ " " " "	17	22	14

Branch Circuit Junction Boxes.—Brass Armored and Plain.

The BRASS ARMORED BOXES for DOUBLE TUBE SYSTEM herewith illustrated, are for use with our Brass Armored Conduit in making a complete and accessible Conduit Installation for Electric Light Wiring. The UNARMORED BOXES with single and double tube outlets, and the Brass Armored Boxes with single tube outlets are used mostly in the equipment of buildings with a complete conduit system for Electric Bells, Telephones, Telegraph, Teleseum, District Messenger and other systems employing low tension currents. These Boxes afford access to the many wires, often run in a single tube.

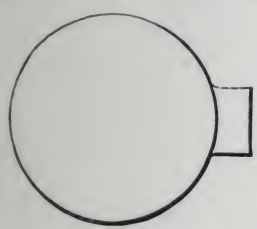
Boxes for Terra Cotta Work (Special), regular depth, 1″; Outlets are placed $\frac{5}{16}$″ from Rim, allowing for ¼″ White Plaster.
" " **Brick and Terra Cotta Work,** " " 1½″ " " " $\frac{5}{16}$″ " " " " ¼″ " "
" " **Lath and Plaster Work,** " " 1⅝″ " " " ⅞″ " " " " ⅞″ Lath, Mortar and Plaster.
" " **Surface Work,** " " 1½″ " " " Flush with bottom of Box for all sizes of Conduits.
Outlets for Brick Work, $\frac{5}{16}$″, ⅜″, ½″, ⅝″ and ¾″ Conduits only; Outlets for Special Terra Cotta Box, $\frac{5}{16}$″ Conduit.

No. 46, Inside Diameter, 2¼ ins., plain . $0 30
Same Brass armored 50
1 Outlet for $\frac{5}{16}$, ⅜, ½ or ⅝-in. tube.



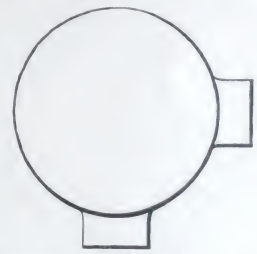
No. 40, Inside Diameter, 2¼ ins., plain . $0 33
Same, Brass armored 55
2 Outlets for $\frac{5}{16}$, ⅜, ½ or ⅝-in. tube.

No. 42, Inside Diameter, 2¼ ins., plain . $0 33
Same, Brass armored 55
2 Outlets for $\frac{5}{16}$, ⅜, ½ or ⅝-in. tube.



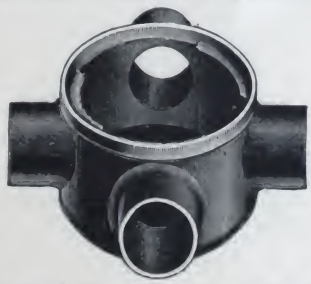
No. 246, Diameter, 3¼ ins., plain . . . $0 40
Same, Brass armored 70
1 Outlet for $\frac{5}{16}$, ⅜, ½ or ⅝-in. tube.

No. 240, Diameter, 3¼ ins., plain . . . $0 45
Same, Brass armored 80
2 Outlets for $\frac{5}{16}$, ⅜, ½ or ⅝-in. tube.



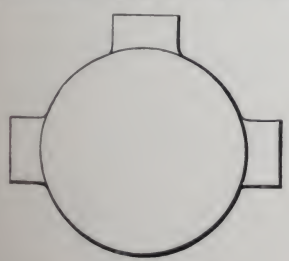
No. 242, Diameter, 3¼ ins., plain . . . $0 45
Same, Brass armored 80
2 Outlets for $\frac{5}{16}$, ⅜, ½ or ⅝-in. tube.

No. 41, Inside Diameter, 2¼ ins., plain . $0 35
Same, Brass armored 55
3 Outlets for $\frac{5}{16}$, ⅜, ½ or ⅝-in. tube.

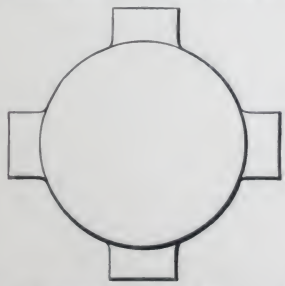


No. 47, Inside Diameter, 2¼ ins., plain . $0 38
Same, Brass armored 60
4 Outlets for $\frac{5}{16}$, ⅜, ½ or ⅝-in. tube.

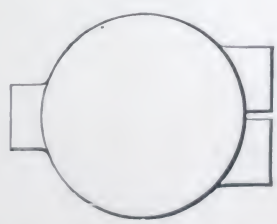
No. 49, Inside Diameter, 2¼ ins., plain . $0 40
Same, Brass armored 65
3 Outlets for $\frac{5}{16}$, ⅜, ½ or ⅝-in. tube.



No. 241, Diameter, 3¼ ins., plain . . . $0 50
Same, Brass armored 85
3 Outlets for $\frac{5}{16}$, ⅜, ½ or ⅝-in. tube.



No. 247, Diameter, 3¼ ins., plain . . . $0 55
Same, Brass armored 90
4 Outlets for $\frac{5}{16}$, ⅜, ½ or ⅝-in. tube.



No. 249, Diameter, 3¼ ins., plain . . . $0 50
Same, Brass armored 85
3 Outlets for $\frac{5}{16}$, ⅜, ½ or ⅝-in. tube.

NOTE.—The above list prices are for Brick Work. For Plain Boxes, Lath and Plaster Work, add seven cents to the list of the Plain. For Brass Armored Boxes, Lath and Plaster Work, add eleven cents to list of Brass Armored Boxes as above. The Dimensions of Outlets given above mean that Conduit of that Diameter (inside) will fit in them. Dimensions of Boxes given above are inside measurements.

Branch Circuit Junction Boxes.—Brass Armored and Plain.

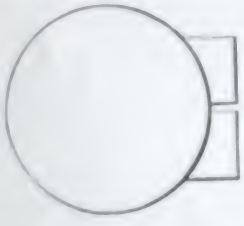
The BRASS ARMORED BOXES for DOUBLE TUBE SYSTEM herewith illustrated, are for use with our Brass Armored Conduit in making a complete and accessible Conduit Installation for Electric Light Wiring. The UNARMORED BOXES with single and double tube outlets, and the Brass Armored Boxes with single tube outlets are used mostly in the equipment of buildings with a complete conduit system for Electric Bells, Telephones, Telegraph, Teleseum, District Messenger and other systems employing low tension currents. These Boxes afford access to the many wires, often run in a single tube.

Boxes for Terra Cotta Work (Special), regular depth, 1″; Outlets are placed ½″ from Rim, allowing for ¼″ White Plaster.
" " **Brick and Terra Cotta Work,** " " 1½″ " " " ⅝″ " " " " ¾″ " "
" " **Lath and Plaster Work,** " " 1¾″ " " " ⅞″ " " " " ⅞″ Lath, Mortar and Plaster.
" " **Surface Work,** " " 1½″ " " " Flush with bottom of Box for all sizes of Conduits.
Outlets for Brick Work, ½″, ⅝″, ¾″, ⅞″ and 1″ Conduits only; Outlets for Special Terra Cotta Box, ½″ Conduit.

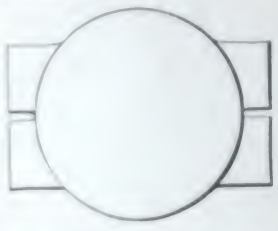
No. 340, Inside Diameter, 2¼ ins., plain $0 35
Same, Brass armored 55
2 Outlets for ½ and ¾-in. tube.

No. 340, Inside Diameter, 2¼ ins., plain $0 40
Same, Brass armored 60
4 Outlets for ½ and ¾ in. tube.

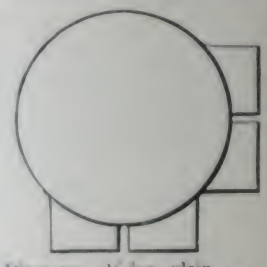
No. 342, Inside Diameter, 2¼ ins., plain $0 40
Same, Brass armored 60
4 Outlets for ½ and ¾-in. tube.



No. 236, Diameter, 3¼ ins., plain $0 45
Same, Brass armored 80
2 Outlets for ½, ⅝, ¾ or ⅞-in. tube.



No. 236, Diameter, 3¼ ins., plain $0 55
Same, Brass armored 90
4 Outlets for ½, ⅝, ¾ or ⅞-in. tube.

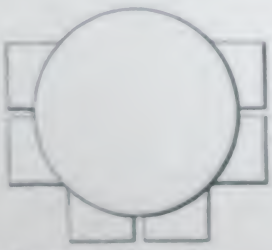


No. 232, Diameter, 3¼ ins., plain $0 55
Same, Brass armored 90
4 Outlets for ½, ⅝, ¾ or ⅞ in. tube.

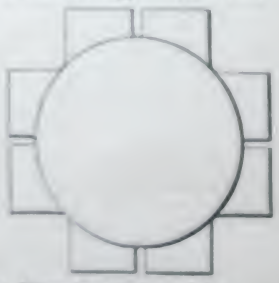
No. 341, Inside Diameter, 2¼ ins., plain $0 45
Same, Brass armored 65
6 Outlets for ½ and ¾-in. tube.

No. 341, Inside Diameter, 2¼ ins., plain $0 50
Same, Brass armored 70
8 Outlets for ½ and ¾-in. tube.

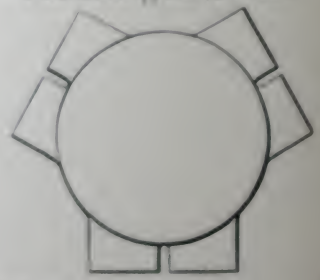
No. 343, Inside Diameter, 2¼ ins., plain $0 35
Same, Brass armored 55
2 Outlets for ½ and ¾-in. tube.



No. 231, Diameter, 3¼ ins., plain $0 60
Same, Brass armored 1 00
6 Outlets for ½, ⅝, ¾ or ⅞ in. tube.



No. 237, Diameter, 3¼ ins., plain $0 70
Same, Brass armored 1 20
8 Outlets for ½, ⅝, ¾ or ⅞-in. tube.



No. 234, Diameter, 3¼ ins., plain $0 60
Same, Brass armored 1 00
6 Outlets for ½, ⅝, ¾ or ⅞-in. tube.

NOTE.—The above list prices are for Brick Work. For Plain Boxes, Lath and Plaster Work, add seven cents to the list of the Plain. For Brass Armored Boxes, Lath and Plaster Work, add eleven cents to list of Brass Armored Boxes as above. The Dimensions of Outlets given above mean the Outside of that Diameter (inside will fit to them. Dimensions of Boxes given above are inside measurements.

Brass Armored Conduit.—Boxes.

Double Tube System.

Nos. 494 and 495.

Outside Dimensions.

Diameter, 5¼ inches; Depth, 2¼ inches.
" Gas Outlet, 1¼ inches.

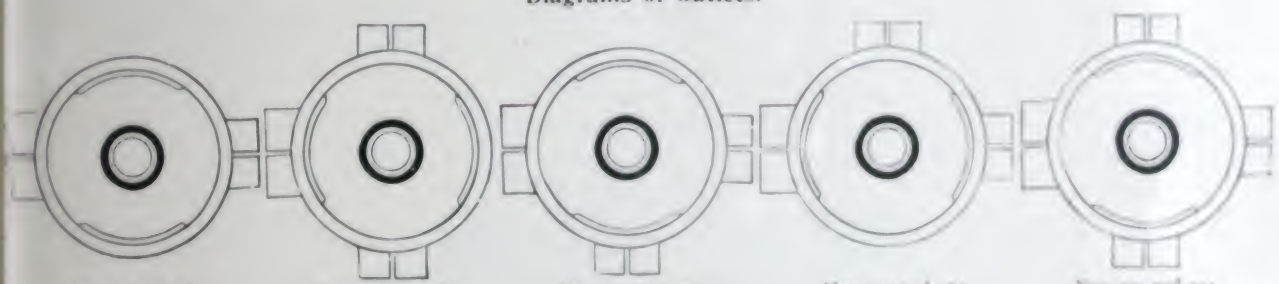
Porcelain Cut-out.

Diameter, 4⅛ inches;
Height, with Adjustable Fuses, 1¾ inches.

No. 717.

Combination Gas and Electric Branch Circuit Box and Cut-out.

Diagrams of Outlets.



Nos. 486 and 487. Nos. 488 and 489 Nos. 490 and 491. Nos. 492 and 493. Nos. 494 and 495.

This Box is designed especially for Hotels, Office Buildings and Apartment Houses, where the Mains are run in the Halls, from which branches are tapped for suites or single rooms. The Gas Outlet will admit all sizes up to ¾-inch (inside) Gas Pipe, which will supply twenty burners fifty feet from Mains. The Binding Posts for supply, will carry Wire up to No. 4 B & S. gauge, and the Binding Screws for Outlets have been tested for 15 amperes. If over 10 lights are required for an Electrolier, we supply Porcelain Fuse Holder No. 695 (see page 28), having larger contact pieces, and which will fit any of these Fuse Terminals on the Cut-out, thus allowing the Branch Circuits to be taken at either side or at right angles. The Box being but 5 inches in diameter over all, permits using an ordinary size shell.

The Main Outlets are made for ⅜, ½ and ⅝-inch Conduits; the Branch Outlets for ½ and ⅜-inch. Outlets are placed 1/16 of an inch from rim of box for Brick or Terra Cotta work, and ¼ of an inch for Lath and Plaster. We will make to order any combination not found in the above diagrams. If Fuse Holder No. 695 is required, state so in ordering.

Prices.

Branch Junction Boxes.

No. 486,	Two Mains,	⅜ inch,	Two Outlets,	½ inch				$1 85
" 487,	"	"	½ "	"	"	⅜ "		1 85
" 488,	"	"	⅜ "	Four	"	½ "		2 00
" 489,	"	"	½ "	"	"	⅜ "		2 00
" 490,	"	"	⅜ "	"	"	½ "		2 00
" 491,	"	"	½ "	"	"	⅜ "		2 00
" 492,	"	"	⅜ "	"	"	½ "		2 00
" 493,	"	"	½ "	"	"	⅜ "		2 00
" 494,	"	"	⅜ "	Six	"	½ "		2 15
" 495,	"	"	½ "	"	"	⅜ "		2 15

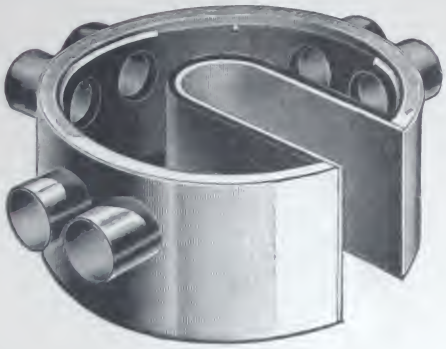
Porcelain Cut-outs.

No. 717,	Cut-out complete, as shown in cut, with six Fuse Holders	$1 05
" 716,	" with ordinary Binding Screws, no	90
" 695,	Fuse Holders complete, extra heavy Terminals, but without Fuse Leads, each	30
" 696,	Fuse Holders complete, regular Terminals, but without Fuse Leads, each	25
" 700,	Copper-tipped Fuses, 5 or 6 Amperes	05

For Prices and Parts of Fuse Holders, see page 28.

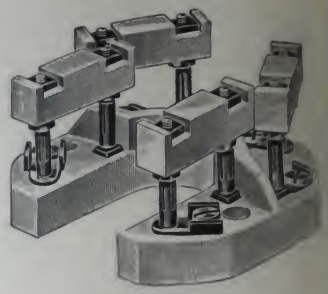
Brass Armored Conduit.—Boxes.

Double Tube System.



No. 918.

Cover No. 919.



Cut-out No. 718.

Combination Gas and Electric Outlet Box and Cut-out.

This Box is designed to be used for Side Outlets on Walls or Partitions. The diameter being small, a 4-inch Fixture Shell will cover it. Cover No. 919 admits of ready access to Box, and when in place, it effectually closes the Outlet against moisture.

Outlets are placed $\frac{5}{16}$ of an inch from rim of Box for Brick or Terra Cotta Work, and $\frac{3}{4}$ of an inch for Lath and Plaster.

If it is desired to fuse the fixture at which the Box is located, the Cover can be omitted, the ends of Conduit sealed with Compound, and the work thus made tight.

Cut-out No. 718 will fuse two Branch Circuits. It is fitted with the Adjustable Fuse Holders; or, will be supplied with Binding Screws, so that the ordinary Copper-tipped Fuses may be employed.

Price List.

Brass Armored Box and Cover.

No. 918, Brass Armored, as illustrated, with six Outlets . . . $2 80
Dimensions: Diameter, 3⅝ inches; Depth, 1⅞ inches.
No. 919, Sheet Brass Cover, insulated lining 60

Porcelain Cut-out.

No. 718, Complete with four Adjustable Safety Fuses . . . $1 65
" 719, Cut-out without Adjustable Fuses, but having Binding Screws for Copper-tipped Fuses 85

No. 991.

Switch Box for Cutter and Other Flush Switches.

The Box, as shown, is designed for a 10 or 20-ampere Cutter, or Newton Flush Switch. We also manufacture the Boxes for all makes of Flush Switches,

Single Pole, Double Pole, and Three or Four Wires.

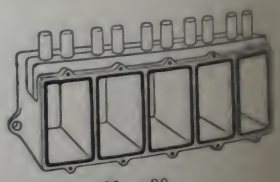
Where the installation is to be made before the Partitition Walls are erected, we place the Outlets near the rear edge on top, to clear the front wall of Terra Cotta Brick.

No. 991, Brass Armored Box, two ⅜-in. Nipples . . . $3 00

Boxes for larger sizes of Conduit to order.

No. 988, Brass Armored Gang Switch Boxes; prices on application.

We do not sell these Switches.



No. 988.

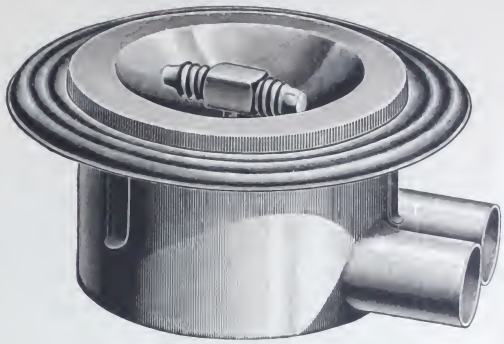
If a Brass Box is not specially required, Iron Box No. 984 (see page 43) can be substituted.

Brass Armored Conduit.—Boxes.

Flush Switches.

No. 733.

No. 69.



Switch No. 733 in Brass Armored Box.
Box not included in price.

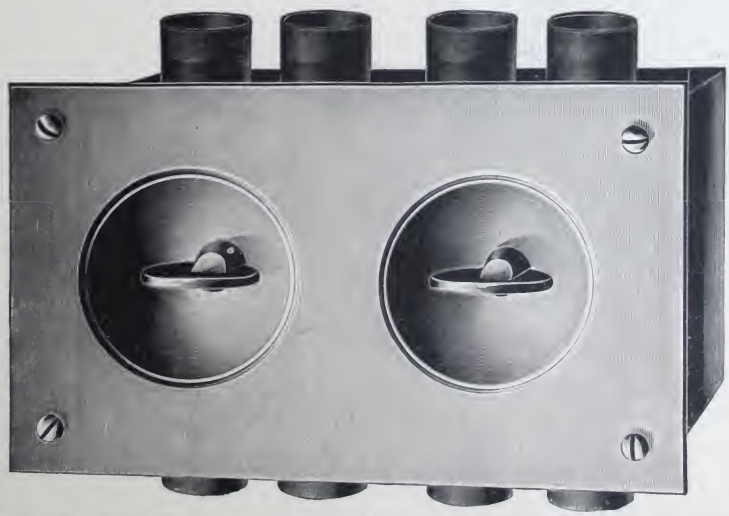
No. 837.

No.		Polished Brass
731,	Single Pole Switch; Capacity, 5 amperes	$0 80
733,	Double " " " 10 "	1 10

No.		Plain	Polished Brass
837,	Adjustable Wall Flange, for concealing rough edges of plaster, to be used with any 2¼-inch brass armored box	23	28
69,	Concave Polished Switch Cover	15	20

Switches and Covers shown above will fit all brass armored boxes of 2¼ inches inside diameter. For Boxes see pages 61 and 62.

Gang Switch Boxes.



These Boxes are adapted for either the No. 954 and No. 956 or No. 731 and 733 Switches and will be made to order for these or any Standard Switch.

Price List.—Switch Boxes.

No.	428,	Brass Armored Box, with Polished Brass Cover,	4	Outlets for	1	Switch,	5, 10, or 25	Amperes	$4 00
"	429,	" " " " " " " "	8	" "	2	"	5, 10, or 25	"	5 75
"	430,	" " " " " " " "	12	" "	3	"	5, 10, or 25	"	7 50
"	431,	" " " " " " " "	16	" "	4	"	5, 10, or 25	"	9 00

Boxes for a greater number of Switches to order. Switches for these Boxes are illustrated and listed above, but are not included in these prices.

Brass Armored Insulating Conduit.—Boxes.

Double Tube System.

No. 643, 653.

No. 644, 654.

Angle and Corner Insulating Boxes,

For Splicing or "Pulling-in" Conductors.

No. 645, 655.

No. 643, Brass Insulated Box, with four Nipples for ⅜-in. or ½-in. Conduit, with plain Brass Cover and Screws $3 75

" 644, Brass Insulated Box, with four Nipples for ⅜-in. or ½-in. Conduit, with plain Brass Cover and Screws 3 75

" 645, Brass Insulated Box, with four Nipples for ⅜-in. or ½-in. Conduit, with plain Brass Cover and Screws 3 85

" 653, Iron Insulated Box, with four Combination Nipples for ⅜ or ½-in. Conduit, plain Iron Cover and Screws 2 85

" 654, Iron Insulated Box with four Combination Nipples for ⅜ or ½-in. Conduit, plain Iron Cover and Screws 2 65

" 655, Iron Insulated Box, with four Combination Nipples for ⅜ or ½-in. Conduit, plain Iron Cover and Screws 2 65

The above prices for Cast Brass Boxes include Brass Smoots soldered in, a brass cover and screws fitted. The cuts herewith shown, however, illustrate the Iron Combination Box found on page 35. These Iron Boxes meet all the requirements when used for concealed work, and are much cheaper than if made of Cast Brass. If plain Brass Covers are required for Nos. 653, 654 and 655, add 15 cents to the list price of each.

Unless otherwise specified in orders we supply outlets to fit ½-inch conduit.

Some Features to be Specially Noted.

In order to provide for the complete imbedding of the conduits where brick and terra cotta is employed, and the thickness of plaster is insufficient to cover them, the practice is to cut channels. This practice is sufficiently objectionable to justify us in the belief that, upon a proper presentation of the importance of so doing, architects will provide for the installation of our Conduits, before the partition walls are built. For this practice it becomes necessary to provide a change in the position of outlets on boxes. This we do without extra charge, when advised that they are to be so employed.

Polished Brass Armored Conduit.

For Exposed Surface Work.

Price List.

SIZE				PRICE
$\frac{5}{16}$	inch	inside	diameter; Price per 100 feet	$9 95
$\frac{3}{8}$	"	"	" " "	10 68
$\frac{1}{2}$	"	"	" " "	11 88
$\frac{5}{8}$	"	"	" " "	12 90
$\frac{3}{4}$	"	"	" " "	14 28
1	"	"	" " "	20 22
$1\frac{1}{4}$	"	"	" " "	24 95
$1\frac{1}{2}$	"	"	" " "	

For this purpose the regular Brass Armored Conduit, Elbows and Fittings are highly polished and coated with a fine quality of lacquer. An installation of this polished conduit presents a neat and attractive appearance, especially when polished brass junction boxes and other fittings are used. The junction boxes for this system are made especially for the purpose, the outlets being placed flush with the bottom of the box. The conduit can be held directly on the surface of the walls by polished brass clips.

This class of work has been largely used in buildings that were not originally wired for electric light, and when the work is neatly installed it presents a much handsomer appearance than work in which wooden mouldings are employed, and is much safer; the conduit being both moisture and fire-proof.

The point of accessibility is, perhaps, its greatest advantage. The wires can be withdrawn and inserted as in concealed conduit work.

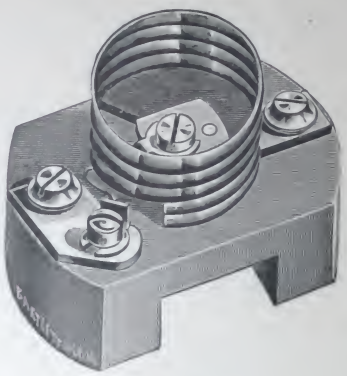
Underwriters universally prohibit the use of mouldings in damp places, and electrical engineers, underwriters and others, who know from experience the fire hazard of "moulding work," have ceased to recommend it.

The following pages contain illustrations and prices of fittings ordinarily used in insulating this system; but we polish to order all Brass Armored goods illustrated in this catalogue.

Weight, dimensions, cubic measurements, etc., of Conduit and Fittings when packed are given on page 8.

Sockets and Receptacles for Conduit Branch Boxes.

Fig. 1.



Nos. 830 and 831.

No. 832.

No. 833.

No. 834.

Fig. 1 shows the complete Socket or Receptacle inclosed in Branch Box, in which it is held in position by the brass cover No. 832 and the rubber screw ring No. 834. The dummy plug No. 834, of wood or hard rubber, is also shown. The whole is arranged so that no part projects beyond the cover itself or its edge. This has been done with special reference to the use of the device as a Floor Receptacle, and of course is an advantage in any place where it may be used.

No. 830, Socket with Porcelain Base, including Cut-out . . . $0 75
" 831, Receptacle with " " without " . . . 65
" 832, Cover for Nos. 830 and 831, brass, plain, 15c.; polished 25
No. 833, Dummy Plug to protect contacts when Socket or Receptacle is not in use, wood, 15c.; hard rubber . . . $0 50
" 834, Hard Rubber Screw Ring for Nos. 830 and 831 . . . 10

Attaching Plug and Receptacle.

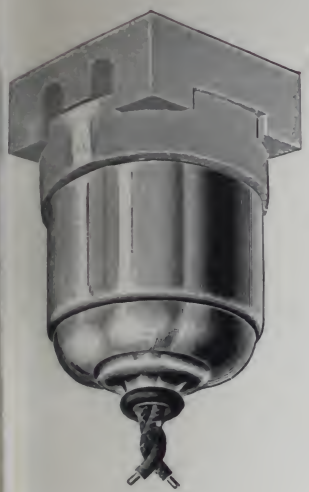
No. 818. Receptable for Branch Box.

No. 820. Attaching Plug, Hard Rubber.

Other Attaching Plugs in the market are very much inferior to the above in respect to carrying and breaking capacity, workmanship and style. The Plug is of hard rubber, handsomely finished.

No. 818, Receptacle, including Cover, to fit Branch Boxes, Polished Brass $2 75
" 820, Attaching Plug, Hard Rubber, to fit either Nos. 818 or 819 . . . . . 2 75

New Combined Pull Switch and Ceiling Pendant Cut-outs.



No. 674.

Fig. 1.

No. 670.

No. 727.

No Key Socket Required. The Switch is Concealed Within the Cut-out Itself.

Fig. 1 illustrates a new form of Switch designed to overcome the difficulties experienced in turning on and off any style of key socket suspended from flexible pendants. This Switch is concealed within the shell of the Cut-outs as shown above. Grasping either the cord or the lamp with the hand, the light may be turned both on and off by a slight pull only. This form of Switch will be found very advantageous for use in place of a key socket or other Switch in circuit, as in clothes closets and in like places where the lamp is within reach of the hand.

The shell containing the Switch is easily and quickly detachable from the base, and embodies in itself safety fuses and ready means for making connections to the flexible cord.

As illustrated above, the Switch is made in two different styles, one to fit Standard Conduit Branch Junction Boxes and Cut-outs, and the other adapted to the base of our "V. V." Ceiling Cut-out.

No. 727 Switch is designed for attachment to flexible cords for controlling incandescent lamps with the same freedom and safety as is experienced in handling an ordinary push button on an annunciator circuit.

The Switch may be used as a pendant from the center of electroliers, thus dispensing with key sockets, and affording ready means for easily controlling the current.

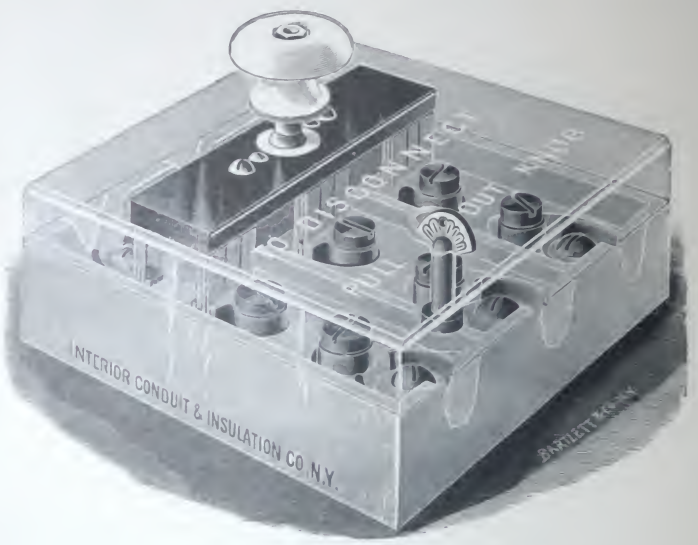
Other applications of this Switch are too numerous to mention in detail.

No. 670, Switch with Porcelain Base and Polished Brass Shell, (not including Branch Junction Box)	$2 50
" 674, Switch with "V. V." Porcelain Base, complete	2 50
" 727, Pendant Pull Switch, capacity three amperes, Polished Brass	1 50

The V. V. Combined Plug Switch and Main Line Cut-outs.

On Porcelain Base for Three Wire System.

No. 888.
Dimensions,
7⅞ x 7⅜ inches.



Capacity,
100 Amperes on
each side.

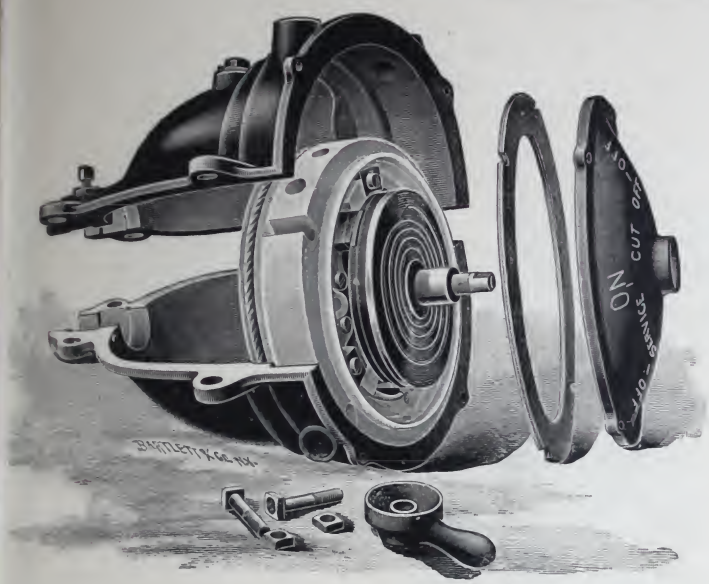
The Fire Underwriters in the principal cities require the placing of a switch and cut-out, in the main line, at the entrance of every circuit entering a building, which can be readily disconnected in case of necessity by the firemen, and when so disconnected insures the current being absolutely shut off. The above combined cut-out and switch fills these requirements in every particular, and many thousands of them are already in use in the large cities.

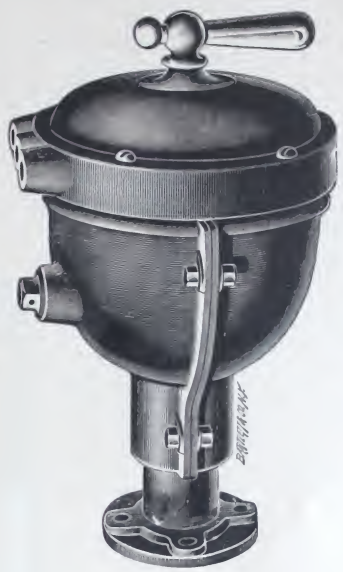
The use of this appliance is, however, by no means limited to the above particular purpose, and we offer it for general use as the best and cheapest three wire main line cut-out and switch, for general wiring, in the market.

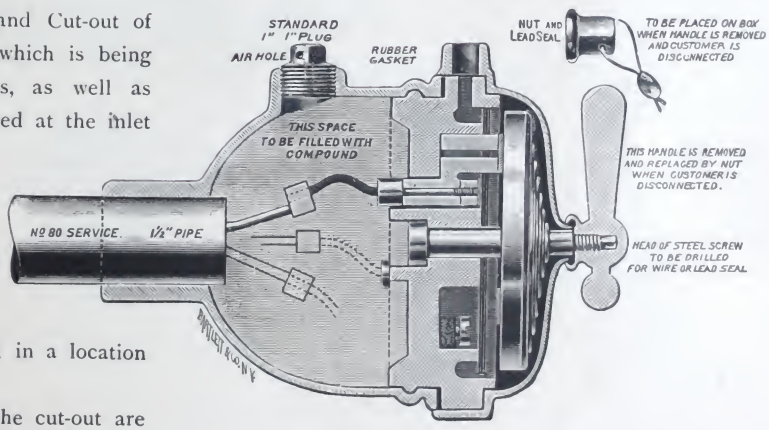
The connections are of bronze, of ample capacity, with strong screws for the binding posts; the contacts made by means of the plug are admirably fitted, and when the plug is withdrawn to open the circuit, the movement is accelerated by means of a strong spring which is contained in the plug itself, insuring a rapid and complete break with a sharp snap action. The base, cover and handle are of the best porcelain, and the only exposed portion of the plug is finished hard rubber, the whole presenting a neat and attractive appearance.

No. 888, Three Wire Combined Switch and Cut-out, Capacity, 100 amperes on each side, $14 25.

Johnson-Van Vleck Service End Cut-out.







We illustrate the Improved Service End and Cut-out of the Interior Conduit and Iusulation Company, which is being generally called for in architects' specifications, as well as required by underwriter associations. It is placed at the inlet of the three wire system to buildings and is the point at which all the circuits for light and power are controlled. In case of fire, the cut-out is accessible to firemen. Its advantages over a triple break-down switch are apparent, as it is thoroughly waterproof. The switch is almost always placed in a location where there is more or less dampness.

The application and method of installing the cut-out are generally evident on inspection. The piece of pipe enclosing three conductors embedded in insulating material, is a standard article of manufacture, as are the flexible conductors used within the iron case.

In installing, first attach the flexible conductors to the terminals projecting from the conduit—take the porcelain base out of the cast-iron case, remove the switch spring disc and connect up, using proper fuses, and carefully solder conduit terminals to flexible connector. Pack the porcelain base with any convenient packing—we recommend using sisal rope, and furnish same with the cut-out. Put the two halves of the iron case together with their flange bolts, remove the plug at top of the case and fill in with insulating compound. Connect the risers through the three outlets provided for that purpose and pack the outlets as they pass through the iron case to insure a tight joint.

Price List.

No. 889, Three Wire Cut-out, Iron Armored, as illustrated, for 100 Amperes	$22 00
" 890, " " " " " " " " 200 "	27 00

The Johnson Switch,

The Smallest Size Switch of Like Capacity in Existence.

Constructed on an entirely New Principle.

Full Size.

Springs do not Carry Currents nor Make Contacts.

Heat, from any Cause, Makes the Contacts Firmer.

No. 960.—50 Amperes.

Price List of Johnson Switches.

No. 954, Single Pole;	Switch Capacity,	10	amperes	.	.	$2	00
" 960, Double "	"	"	50	"	.	.	5	00
" 962, "	"	"	"	100	"	.	.	7	00

Johnson Switches.

The contacts are all rigid pieces held firmly between unyielding vise jaws.

Heat arising from unclean contacts expands the metals between the unyielding vise jaws, thus reducing the heat by increasing the area of contact surface.

The carrying capacity is only limited by that of the metal constituting the terminals, a fixed quantity in any given size switch.

Snap movement has the quality of a gun trigger; action clean, sharp, positive and unchangeable by use or time.

Length of "breaking throw," one-quarter of switch circumference; path of arc, twice the length of throw.

Character of workmanship, "Engine Made."

Dimensions the smallest per unit of capacity yet produced: 50 amperes, diameter, 3 inches; height, 2½ inches; cubic contents, 18.

Other Switches.

The contacts are invariably flexible and are maintained under spring pressure capable of yielding.

Heat arising from any cause impairs the temper of contact springs, thus reducing area of contact surface, augmenting the heat and inviting the quick destruction of the switch.

The carrying capacity is limited by the area of contact and the pressure of the spring, a variable quantity in every individual switch.

Snap movement subject to variable friction, therefore sluggish, changeable and inelastic.

Length of "breaking throw" variable, but never exceeding one-quarter; path of arc never greater than length of throw.

Character of workmanship, "Punch and Die."

Dimensions variable. One standard—40 amperes; diameter, 5½ inches; height, 4¾ inches; cubic contents, 114.

General Offices and Works, 537 West Thirty-fourth Street, New York.

Prices Subject to Discount.

The Klein Snap Switch.—A Superior Spring Contact Switch.

In addition to the Johnson switches, we manufacture a line of switches constructed upon the *principle depending upon spring pressure for the maintenance of contact*, which in design, workmanship and the high quality of the materials employed in their construction, at once places them in the front rank of switches of their class. These switches are all mounted on incombustible porcelain bases, have brass covers and keys, and present a neat and attractive appearance.

No. 784, Single Pole.
No. 785, Double Pole.
Diameter of Base, $2\frac{7}{8}$ inches.

View showing Working Parts.

No. 787, Double Pole.
Diameter of Base, $3\frac{1}{4}$ inches.

Price List.

	PLAIN	POLISHED BRASS
No. 784, Single Pole Switch, Capacity 5 Amperes with cover as shown in cut	$0 95	$1 00
" 785, Double " " " 10 " " " " " "	1 00	1 05
" 787, " " " " 25 " " " " " "	2 50	2 55

In ordering, please specify Catalogue Number, and state whether wanted Plain or Polished Brass.

"Universal" Switches (Patented) For Electric Light Fixtures.

No. 740, Female.

No. 741, Male and Female.

No. 742, Male.

Our "Universal" Switches, illustrated above, being designed for insertion in a tube, have two principal uses, viz.: for conduits and for electric light fixtures.

Its value as a fixture switch lies in the fact that it may be embodied in any electric light fixture, precisely as a gas cock is embodied in every gas fixture, giving similar advantages, and we call the particular attention of manufacturers of electric light fixtures to the fact that these switches are constructed with practical reference to the requirements of the process of manufacturing fixtures. The electrical parts are separable from the supporting frame, which can be cemented, soldered or brazed into the fixture and undergo every process that fixtures are ever put through in their making and finishing. The keys are not included in price.

No. 740, Female Thread, " 741, Male and Female, " 742, Male Threads,	Capacity, 2 amperes, Thread Sizes up to $\frac{1}{2}$ inch, Brass.	Each, plain . . $1 20 Lots of 100, each . 1 10 " " 500 " . 1 00

Automatic Switches (Patented) for Two or Three Wire Systems.

A switch, by means of which an electric light or motor current of any quantity or electro-motive force may be controlled from any number of points, without the necessity of carrying the main current wires to such several points, has been so long recognized as a valuable but *missing* appliance, that the mere announcement of its existence and availability will be welcomed as a relief by all electric light and motor contractors, to whom the problem of multiplying the points of control has so often proven a vexation.

No. 850
Automatic Switch.

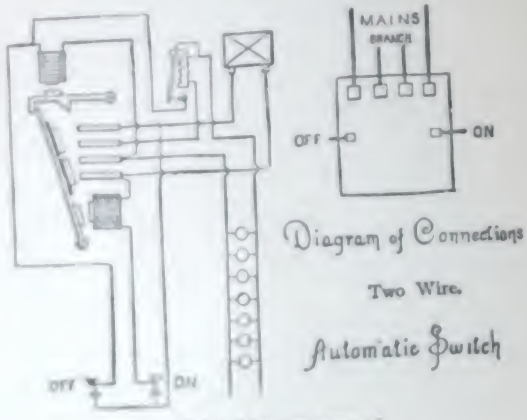


Diagram of Connections
Two Wire.
Automatic Switch

No. 856.
Push Button
for
Automatic Switch.

For Price List see page 76.

The new Automatic Switch, which we illustrate above and now bring to the attention of our customers and the public, is as effective and absolute in its action as the best hand switch, and is operated by means of ordinary single push buttons, located wherever it is desired to have control of a given circuit, and connected with the Automatic Switch by means of the smallest size wires. As these wires carry but a fraction of an ampere, they may run any distance and ramify throughout the largest building without regard to their carrying capacity.

To give some idea of the value of this new appliance we enumerate some of the advantages accruing from its use.

Advantages of Using our Automatic Switches.

First.—Great economy of copper and labor in wiring by the substitution of small wires of uniform size for the heavy main current wires, which otherwise would have to be brought within reach, very often greatly out of reach of their natural channel.

Second.—Great added convenience by being enabled to switch on the lamp or motor from one point and turning them off from *another*.

Third.—Complete command of the entire current supply of a house, store, factory, etc., by placing our Automatic Switch between the meter and the street service, thereby rendering the premises absolutely free from the suspicion of fire, as well as preventing any waste of current during the hours when none is required.

Advantages of Using our Automatic Switches.—Continued.

Fourth.—As an unexcelled burglar alarm, the controlling circuit may be connected with the burglar alarm wires; or push buttons may be located within reach of the street patrol; or a clock may periodically operate the switch; or the circuit may be extended by connection with a Central Office Protective Service; the operation resulting in a brilliant illumination of the premises, of course to the utter rout and confusion of the burglar.

Fifth.—The automatic control of water supply by means of a float placed in the reservoir. The motor and pump may be in the cellar, and only a couple of small wires carried to the reservoir. The pump may also be controlled in the same way at other points than the tank, frequently a desirable object.

Sixth.—For signal or even switching purposes, on railways, this switch would prove a great acquisition. The signals may be operated by small motors or powerful magnets, and the switches by still more powerful means, and the heavy currents required for such work kept entirely within the confines of the switch or signal house, where they can be reliably protected. Only the small wires, easily cared for in every way and indifferent to distance, need be carried to the distant point from which control is desired. Furthermore, the required contact being so trifling, the hitherto difficult problem of effecting it reliably becomes simple.

Seventh.—In private house lighting and ventilating, the importance of minimizing the number of switches (which either require expensive pockets or offensively obtrude themselves upon the walls) is very great. By means of this switch, all the circuits may be controlled by switches located in one place, say in the cellar, where they can be rendered perfectly safe, and only the neat and ornamental push button is located in the halls or rooms from which the control of the currents is required. At night, or at any time when the current is not required, the electric light currents may be entirely isolated from the house, and yet by means of the push buttons controlling the Automatic Service Switch they may be brought in again instantaneously when wanted. Risk of fire from the currents is, of course, cut off with the current itself.

Eighth.—In country houses, the control of lawn and drive lamps from the gate, the stable, or the house, at will, is a great desideratum, as well as a great economy. The fact that such lights may be automatically turned on or off by the clock or by the opening and shutting of the gate, almost renders their employment in such lighting a necessity. The same automatic control of the lights on the opening or shutting of the front door of a residence may be had, and will often be a great convenience.

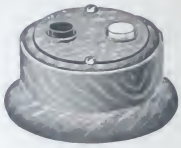
In short, there is no apparent limit to the uses to which this handy means of controlling unlimited power from any distant point or points in residences, stores, factories, theatres, halls and public and private buildings, by means of a current no stronger than is usually employed for signaling purposes, may be applied.

(Price List on Page 76.)

Patent Automatic Switch and Automatic Cut-out or Protector.

Approved and Endorsed by Insurance Experts.

No. 850.
Automatic Switch described on preceding pages.



No. 856.
Double Push Button.

No. 860.
Automatic Cut-out or Protector for use with our Automatic Switch No. 850.

The combination of this simple and reliable Cut-out with our No. 850 Automatic Switch opens up a large additional field for usefulness for it. Its value may be summed up in the broad statement that it is a perfect and infallible Cut-out, accomplishing in fact what other Cut-outs are designed to do in theory, but fail, viz.: To be safeguards against Fire, Burning out Armatures, Destroying Circuits, etc.

Some of its Advantages and New Uses are:

It can be set to open circuits *instantly* at any fixed overload, from one ampere up, and it will absolutely do so whenever the overload occurs, from a short circuit or any other cause, averting the danger arising from the fact that ordinary safety Cut-outs have to be made double the capacity that they ought to have, because otherwise they might give out, and put out the lights when there is really no danger.

When this improved Cut-out operates it is not, like others, destroyed. On the contrary, it automatically re-sets itself instantly, but prevents the passage of any current until the overload or trouble is removed, when the whole circuit may be again set into operation by simply pressing the push button that controls the Automatic Switch.

Price List.

No. 850,	Automatic Switch, capacity 50 amperes, total capacity two or three wire,	$35 00
" 851,	" " " 100 " " " " " " " "	47 50
" 853,	" " " 200 " " " " " " " "	95 00
" 856,	Double Push Button for use with Automatic Switch	4 00
" 860,	Protector or Cut-out " " " of 50 amperes .	19 50

Unless otherwise ordered, we make the Automatic Switch for 100 volts. We can make it of any desired voltage from 50 to 250.

Automatic Cut-out.

No. 865, Cut-out.

The Switch consists of a **snap knife switch** normally held closed by means of a catch on the armature of the **Release Magnet,** and a relay for controlling the same, all mounted on a slate base and enclosed in a neat mahogany cover with glass front.

Dimensions.

Length, 7 inches. Width, 3 inches. Depth, 3¾ inches.

No. 865, Price $15 00

Cover for same.

This instrument is designed as a safety device for any circuit, in place of the ordinary fusible wire. The circuit is automatically opened by means of a double pole snap switch whenever an overload occurs.

The circuit to be controlled energizes the relay, whose armature is set so as to act only when a predetermined amount of current, in excess of the normal, flows through it.

Upon closing, this armature makes contact with the Release Magnet, the armature of which being attracted, the catch is removed and the knife switch is immediately opened by means of a strong retractive spring. The circuit is thus opened at both poles, and remains so until the switch is closed by means of the handle, which projects through the cover for this purpose.

The switch will not remain closed as long as the circuit is overloaded.

For the three wire system it is necessary to place one Cut-out in each side.

The V. V. Stage Receptacles and Attaching Plugs.

No. 898. No. 894.

The designs of these new stage receptacles are considered the most durable and practical ever offered to the trade. The containing box and cover are of cast-iron, and the base supporting the contacts is of porcelain, thus rendering the receptacle incombustible.

They are waterproof under ordinary conditions, as when the floor of the stage is washed, and cannot clog up with dirt, which is so apt to collect in such places. The attaching plugs used in connection with these receptacles are of superior construction and cannot short circuit.

We make them double and triple pole. The latter type will be found desirable, if not absolutely necessary, whenever the three wire system is employed.

No. 896, Receptacle and Cover, two wire system, capacity 25 amperes, shallow pattern $9 00
" 898, " " " " " " " " deep " 9 50
" 894, Attaching Plug for either 896 or 898 . . . . . 4 50

Prices for three wire receptacles and two wire receptacles of other capacities than above will be quoted upon application.

Chandelier Switches.

For Either Electric or Combination Fixtures.

Convenient—Invisible—Reliable—Inexpensive—Operated by Cord and Tassel—Dispenses with Key Sockets.

Chandelier Switch.

This switch may be applied to any fixture, either combination or electric only, as it merely intersects the stem—a part common to all styles of fixtures. The switch is operated mechanically by a silk cord and tassel, which passes through a bushing in the end of the stem, and imparts a graceful and ornamental appearance to the fixture itself.

No extra wiring for the switch or fixture is required and each light is under direct control from the cord and tassel, which may be made any desired length.

The switch is made with incombustible porcelain base and in two styles—one (single) in which all the lamps are connected to one contact piece and are turned on or off by a single pull of the cord, and the other (multiple), to which the lamps are connected separately and are turned on or off consecutively by the same means.

The multiple switch is manufactured with four steps only, so when it is used on a chandelier having more than four lights, the lamps may be connected in pairs or otherwise to the contacts.

No. 721.	Single Chandelier Switch, Capacity 3 Amperes	$2 25
" 723.	Multiple " " " 3 Amperes on each step .	3 00

Metal-Sheathed Bushings,

Made especially to conform to the requirements of the Underwriters' International Electric Association.

The Interior Conduit and Insulation Company take pleasure in presenting to the Trade an armored bushing which complies with the requirements of the Underwriters' Rules. This bushing has points of superiority over any other kind permitted by the Rules.

It is thoroughly "*water-proof*," "*non-combustible*," and has superior insulating qualities. The Armor gives strength and durability, which neither Glass, Porcelain, nor Vulcanized Rubber composition possesses.

Underwriters' Requirements.

RULE 18. CONDUCTORS.—Amend Section (*b*) to read as follows:—

b. Must be protected when passing through FLOORS; or through walls, partitions, timbers, etc., in places liable to be exposed to dampness, by water-proof, non-combustible, insulating tubes, such as glass or porcelain.

Must be protected when passing through walls, partitions, timbers, etc., in places not liable to be exposed to dampness by *approved* insulating bushings specially made for the purpose.

RULE 18. CONDUCTORS:—

Section *b*. Second paragraph. Except for FLOORS, *and* for places liable to be exposed to dampness, Glass, Porcelain, *metal-sheathed* Interior Conduit, and Vulca Tube, when made especially for bushings, will be *approved*. **The two last named will not be approved if cut from the usual lengths of tube made for conduit work, nor when made without a head or flange on one end.**

Price List per 100 Pieces:

LENGTH OVER ALL IN INCHES	1½	2½	3	4	6	8	10	12	14	16	18	20	22	24
1/8" inside dia., ½" outside dia.	$2 15	$2 15	$2 15	$2 50	$3 65	$5 00	$5 90	$6 75	$8 40	$9 25	$10 00	$10 90	$11 75	$12 65
3/8" " 5/8" "	2 50	2 50	2 50	2 75	3 75	5 40	6 50	7 50	9 15	10 00	10 75	11 75	12 65	13 50
½" " ¾" "			2 90	3 15	4 50	6 00	6 90	8 90	10 00	10 90	11 75	12 65	13 50	14 40
5/8" " 1 1/8" "			3 15	3 65	5 15	6 35	7 25	10 00	12 25	13 40	14 50	15 65	16 90	18 15
¾" " 1" "			3 50	4 15	6 15	7 15	9 00	11 25	12 65	14 00	16 65	18 15	19 40	20 65
1" " 1¼" "				5 90	8 15	9 90	12 05	14 00	17 40	19 15	20 00	21 75	23 50	25 25
1¼" " 1½" "					10 15	12 00	14 00	16 25	18 40	20 50	22 50	24 50	26 65	28 75

Any length made to order at proportionate prices.

General Offices and Works, 527 West Thirty-fourth Street, New York.

Prices Subject to Discount.

Numerical Index.

Numerical Index.—Continued.

Alphabetical Index.

Alphabetical Index.—Continued.

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